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THE YEARBOOK OF  
THE UNIVERSITIES OF THE EMPIRE

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UNIVERSITIES OF THE EMPIRE  
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# THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

1930

EDITED BY  
SIR H. FRANK HEATH  
G.B.E., K.C.B.

PUBLISHED FOR  
THE UNIVERSITIES BUREAU  
OF THE BRITISH EMPIRE  
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## PREFACE

THE *Yearbook* was first published in 1914. Before its advent the official University Calendars were the only authentic sources of information regarding the personnel, organization, regulations, and recent activities of universities. When British universities were few and university men took but little interest in the affairs of any except their own, the Calendars sufficed; but there are now 70, and each takes a growing interest in the others. The Calendars constitute a library of no mean dimensions—some 50,000 pages—and hardly anywhere except at the Universities Bureau are they all accessible. Much of their contents is of strictly local interest. In the *Yearbook* an attempt is made to select from these bulky volumes such information as is likely to prove of interest to members of other Universities and Colleges, to Government Departments, Clubs, schoolmasters, and the public generally. It would be impossible to present a conspectus of this kind in a volume of manageable dimensions without resorting to the use of abbreviations and other devices for saving space. It is hoped that abbreviation has not been pressed beyond the limits of intelligibility.

In chapters introductory to the sections dealing with the Universities of Great Britain and Ireland, of Canada, of Australia, of South Africa, and of India, is collected such information regarding their history, regulations, and practice as they share in common. Each section comprises three parts:

(1) A directory of the officers and members of the staff of the University. The Editor has in the main to rely for the accuracy of this list upon the officials of the several Universities and Colleges who assist him by sending in annual corrections, but an attempt has been made, by a study of announcements made in the public press, in University Gazettes and the like, to bring the list, so far as possible, up to date at the time of going to press. The other sections under the various institutions deal with the academic year 1928–29 or (in the case of those south of the equator) with the calendar year 1928, since the academic year runs in these Universities from March to November or December. The Directory gives the degrees held by the teachers as well as the University by which they were granted. If no name of a university follows a

degree, it may be assumed that the degree was conferred by the university upon whose staff the teacher is serving.

With the exception of honours conferred by H.M. the King, titles other than degrees are omitted, unless they throw light upon the standing of their holders in the subjects which they profess.

(2) Under the heading "General Information" an account is given of the equipment of libraries, museums, laboratories, etc., of the university, the degrees, diplomas, and certificates which it confers, its composition fees, scholarships open to graduates, residential accommodation, extra-mural work, publications, etc.

(3) Reports of events of outstanding interest which occurred during the past academic year follow. They include statistics of the numbers of students in attendance and the degrees conferred.

The Appendices include: (a) Summaries of regulations for the diplomas of the Medical Colleges and other Associations and Institutions of the United Kingdom, and the conditions governing admission to various professions and careers for which university studies are a fitting preparation; (b) matriculation examinations; (c) admission of students from abroad into the Universities of the United Kingdom; (d) lists of open post-graduate scholarships, fellowships and grants for research available in the Empire and abroad to British subjects; (e) lists of centres of scientific research and of scientific information, whether connected with the universities or not, to which independent research workers are admitted.

Appendix XXII., which gives statistics as to students from other countries in the Universities and University Colleges for Great Britain and Ireland, has this year been brought up to date by including the figures both for 1928-29 and for 1929-30.

An attempt has been made, in the present issue, to give a comprehensive survey of the facilities available in the Empire for scientific research in all its principal branches and of the aids available in every country for post-graduate students and research workers of British citizenship irrespective of the place of their education.\* This information has not hitherto been available in any single publication, and the Universities Bureau believes that in view of the great development that has taken place of recent years in scientific research throughout the Empire, and the growing interest shown in it by all classes, particularly by University students, the publication of this survey will be helpful, especially to those living in the Dominions and Colonies overseas.

\* Post-graduate scholarships and fellowships open only to graduates of particular universities will be found under the head of each university in the main part of the book.

Appendices XXIII. and XXIV., which give the information here described, will no doubt be found imperfect in many particulars, but it is hoped gradually to make them complete, and the Editor will be grateful if his attention is called to omissions or inaccuracies.

Two Appendices, Nos. XXV. and XXVII., giving respectively information as to Professional Schools, Specialist Courses, etc., and the titles of Theses accepted for the Degree of Doctor have been abandoned. The former would only be really valuable, if it were critical, which in the nature of the case is impossible ; while all, or nearly all, the information of value it contains will be found in the main body of the *Yearbook*. As regards the latter, the labour involved in its compilation is felt to be unduly heavy in proportion to the value of the list when completed.

The Index of Colleges given in previous editions has also been abandoned, but the General Index has been enlarged and, it is hoped, improved so as to include the more useful references in the Index of Colleges, as well as a series of references which will enable the reader to find the information hitherto collected in Appendix XXV.

It is with much regret that the Bureau has been obliged to raise the price of the *Yearbook* and drastically to revise the number of free copies distributed. The cost of printing and binding is so high, the sales are so comparatively small, that the annual deficit incurred in respect of the *Yearbook* has been a very heavy one. The Committee have been unable any longer to face so large a deficit, having regard to the rapidly growing demands for other services from the Bureau and to the inadequacy of its income.

In conclusion the Universities Bureau acknowledges gratefully the ungrudging help afforded by the official Registrars and other correspondents in the Universities. This help gives the book an authoritative character to which it could not otherwise pretend.

H. F. H.

Universities Bureau of the British Empire,  
50 Russell Square, London, W.C.1.



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*For initial letters of titles of degrees vide p. 15.*

[See also lists of medical qualifications in Appendix XI. In the appendices relating to the various professional associations some account is given of the examinations, etc., whereby their qualifications are obtained.]

A.C.A.	Associate of Institute of Chartered Accountants.
A.C.G.I.	City and Guilds of London Institute.
A.C.I.S.	Chartered Institute of Secretaries.
A.I.C.	Institute of Chemistry.
Assoc.Inst.M.M.	Institution of Mining and Metallurgy.
A.K.C.	King's College.
A.L.S.	Linnaean Society.
A.M.C.	Art Master's Certificate.
A.R.A.M.	Associate of Royal Academy of Music.
A.R.C.A.	College of Art.
A.R.C.M.	Music.
A.R.C.O.	Organists.
A.R.C.S.	Science.
A.R.C.S.I.	Science, Ireland
A.R.E.	Society of Painter Etchers.
A.R.I.B.A.	Institute of British Architects.
A.R.S.M.	School of Mines.
A.R.T.C.	Technical College, Glasgow.
A.R.W.S.	Society of Painters in Water-Colours.
C.A.	Chartered Accountant.
C.D.A.	College Diploma in Agriculture.
C.D.H.	Horticulture.
C.G.I.	City and Guilds Institute.
C.S.S.	Certificate in Social Study (St. Andrews).
Dip. d'E.S.	Dip. d'Etudes Supérieures.
Dip.T.C.	Diploma of the Technical College, Zürich.
D.I.C.	Diploma of Imperial College of Science and Technology.
D.M.R.E.	in Medical Radiology and Electrolgy.
D.O.M.S.	in Ophthalmic Medicine and Surgery.
D.P.H.	in Public Health.
D.P.M.	in Psychological Medicine.
D.S.C.	Distinguished Service Cross (Naval).
D.T.M.	Diploma in Tropical Medicine.
D.V.S.M.	in Veterinary State Medicine.
F.A.C.S.	Fellow of the American College of Surgeons.
F.A.I.	Auctioneers' Institute.
F.B.A.	British Academy.
F.C.A.	Institute of Chartered Accountants.
F.C.S.	the Chemical Society.
F.C.I.S.	the Chartered Institute of Secretaries.
F.G.S.	Geological Society.
F.I.A.	Institute of Actuaries.
F.I.C.	Chemistry.

# QUALIFICATIONS REFERRED TO BY LETTERS xiii

F.I.C.A.	Fellow of the Institute of Chemistry, Australia.
Fil.Lic. (Upsala)	Licentiate in Philosophy.
F.I.P.	Fellow of the Institute of Physics.
F.I.S.E.	Institution of Structural Engineers.
F.L.A.A.	London Association of Accountants.
F.L.S.	Linnean Society.
F.Ph.S.L.	Physical Society of London.
F.R.A.I.	Royal Anthropological Institute.
F.R.A.M.	Royal Academy of Music.
F.R.C.O.	College of Organists.
F.R.C.P.	Physicians, London.
F.R.C.S.	Surgeons, England.
F.R.C.V.S.	Veterinary Surgeons.
F.R.I.B.A.	Institute of British Architects.
F.R.S.	Society.
F.S.A.	Society of Antiquaries.
F.S.A.A.	Society of Accountants and Auditors.
F.S.I.	the Surveyors' Institute.
F.S.S.	Royal Statistical Society.
F.Z.S.	Zoological Society.
K.H.S.	Hon. Surgeon to the King.
L.C.P.	Licentiate of the College of Preceptors.
L.D.S.	in Dental Surgery.
L.L.A.	Lady Literate in Arts (St. Andrews).
L.R.A.M.	Licentiate Royal Academy of Music.
L.R.I.B.A.	of the Royal Institute of British Architects.
M.I.Ae.E.	Member of Institution of Aeronautical Engineers.
M.I.A.E.	Automobile Engineers.
M.I.Chem.E.	Chemical Engineers.
M.Inst.C.E.	Civil Engineers.
M.Inst.E.E.	Electrical Engineers.
M.I.Mech.E.	Mechanical Engineers.
M.Inst.M. and Cy.E.	Municipal and County Engineers.
M.I.Min.E.	Mining Engineers.
M.Inst.M.M.	and Metallurgy.
M.I.N.A.	Naval Architects.
M.I.P.T.	Petroleum Technologists.
M.I.Struct.E.	the Institute of Structural Engineers.
M.P.S.	the Pharmaceutical Society.
M.R.C.V.S.	the Royal College of Veterinary Surgeons.
M.R.I.A.	the Royal Institute of Anthropology.
M.R.S.I.	the Royal Sanitary Institute.
M.S.A.	the Society of Architects.
M.T.P.I.	the Town Planning Institute.
N.D.A.	National Diploma in Agriculture.
N.D.D.	Dairying.
N.D.P.	Poultry Husbandry.
N.F.U.	Froebel Union.
O.A.	Officier de l'Académie.
O.I.P.	de l'instruction publique.
P.A.S.I.	Professional Associate of the Surveyors' Institution.
Ph.C.	Registered Pharmaceutical Chemist.
R.O.I.	Royal Institute of Oil Painters.
S.S.C.	Solicitor before the Supreme Court.
T.D.A.	Diploma of Agriculture, Transvaal.
Wh.Sch.	Whitworth Scholar.
W.S.	Writer to the Signet.

N.B.—The letters used in the *Yearbook* are not in all cases those authorized by the Associations; e.g. M.Inst.C.E. is sometimes abbreviated to M.I.C.E., M.I.Mech.E. to M.I.M.E., F.Inst.P. to F.I.P.

## THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

At the final, Delegates', meeting of the Congress of 1912 it was resolved that steps be taken for the formation in London of a Bureau of Information for the Universities of the Empire. In the spring of 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance. The Committee thereupon purchased the lease of No. 50 Russell Square. Offices in this building have been let to—

THE AMERICAN UNIVERSITY UNION (British Division of the Institute of International Education, New York, U.S.A.). *Acting Director*—Professor HENRY DAVID GRAY, A.M., Ph.D.

THE ANGLO-DANISH BUREAU, ESTABLISHED BY THE DANISH STUDENTS' INTERNATIONAL COMMITTEE. *Director*—J. H. HELWEG, Cand. Mag.

THE COMMONWEALTH FUND ; Committee of Award. (After March 25, 1930, its address will be 35 Portman Square, London, W.1.) *Secretary*—R. H. SIMPSON, M.A.

*The Committee of the Universities Bureau desire to welcome members of any of the Universities of the King's Dominions overseas who may visit London, and to place the resources of the Bureau at their disposal.*

## THE EXECUTIVE COMMITTEE

*(Appointed in accordance with a resolution of the Delegates to the Congress of the Universities of the Empire, at a Meeting in London on July 5, 1912)*

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Prof. J. T. WILSON, M.A., M.B., LL.D., F.R.S., representing Australia.

*Secretary* : Sir H. FRANK HEATH, G.B.E., K.C.B., B.A., Ph.D.



# UNIVERSITIES OF GREAT BRITAIN AND IRELAND

HISTORICAL SUMMARY—ADMISSION AS AN UNDERGRADUATE—ADMISSION OF STUDENTS FROM ABROAD—NUMBER OF FULL-TIME STUDENTS—NATIONAL UNIONS OF STUDENTS—TERMS—FEES—SCHOLARSHIPS—LIBRARIES—UNIVERSITY GRANTS—REPRESENTATIVES IN PARLIAMENT—UNIVERSITY EXTENSION—CONFERENCES—STANDING COMMITTEE OF VICE-CHANCELLORS—INTERNATIONAL CONFERENCES—INTERCHANGE OF TEACHERS AND STUDENTS—CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE—DEGREES.

UNIVERSITIES were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Universities, similar seats of learning arose at Oxford and Cambridge, the nucleus of organization being, as at Paris, a corporation of masters—not, as at Bologna, a corporation of students—and many of the students being boys of fourteen or even younger. Instruction was in the form of lectures by licensed teachers. To the Seven Liberal Arts of the mediæval schools (the "trivium"—GRAMMAR, LOGIC, and RHETORIC, and the "quadrivium"—ARITHMETIC, GEOMETRY, MUSIC, and ASTRONOMY) the Universities added the three higher "Faculties" of THEOLOGY, LAW, and MEDICINE in order to provide complete preparation for the learned professions. The Scottish Universities, except Edinburgh, were founded in the fifteenth century, but the country had not been greatly influenced by the Revival of Learning, and although the earliest Reformers were in touch with continental scholars, and some attempts were made to introduce the New Learning into the schools and universities, the mediæval scholastic tradition remained paramount in St. Andrews and Glasgow until the seventeenth century. Aberdeen was more receptive to *renaissance* influences. The University of Edinburgh originated in a College established by the Town Council in 1583. Trinity College, Dublin, was founded by Queen Elizabeth in 1591 on the lines of the Oxford and Cambridge colleges.

After the Reformation a demand arose in England for education of a more secular type, but the Acts of Uniformity (1559 and 1662) and similar measures stereotyped the schools and universities as clerical and theological institutions, and by the latter half of the eighteenth

century the teaching in the Universities had become mainly traditional and formal, and they were rapidly losing their hold on the national life.

Readjustment to modern conditions took place in the course of the nineteenth century. Already in 1779 Protestant Dissenters, and in 1791 Roman Catholics, had been emancipated from the ban against their following the teaching profession. The few Denominational tests retained by the older Universities were abolished in 1871. Oxford in 1800 established a system of written examinations for the bachelorship, and Cambridge in 1824 the classical Tripos. Soon afterwards both Universities instituted non-classical Honour examinations. The University Commissioners of 1850 and 1877 made provision at Oxford and Cambridge for the endowment of the teaching of modern subjects, and the throwing open of scholarships to students of such subjects removed practically all obligations to take orders in the Church of England, and did much to make the Universities accessible to all classes of the community.

Meanwhile the foundation in 1827 on a strictly undenominational basis of the "University of London" which obtained a charter in 1836 as University College, London, provided a teaching institution of University rank which was free from all restriction of tests and dared to include Chemistry and Engineering in its curriculum. The University of London received its charter at the same time and the University of Durham in 1837. In its original conception Durham followed closely the lines of Oxford. It was partly endowed out of the funds of the See and Chapter of Durham. The Colleges in which the other English Universities originated were founded as follows: Owens College, Manchester, 1851; Yorkshire College, Leeds, 1874; University College, Bristol, 1876; Firth College, Sheffield, 1879; Mason College, Birmingham, 1880; University College, Liverpool, 1881; the University Extension College, in conjunction with the Schools of Science and Art, Reading, in 1892. Created to minister to local needs and supported largely by local benefactions, they were naturally closely associated with local industries, and from the first laid stress upon the study of mathematical, scientific, and modern subjects. Reading differs from the others in having been established in a town of comparatively small size (population less than 100,000), in the prominence given to work bearing on the agricultural and associated industries, and in its policy of making residence in college or hostel the rule for its students. The Royal College of Science and the Royal School of Mines originated in a Technical School formed in 1851 in connexion with a Museum of Practical Geology. They, with the City and Guilds (Engineering) College, founded in 1881, became integral parts of the Imperial College of Science and Technology which was established in 1907 with the declared purpose of giving the highest specialized instruction and providing for research in the various branches of science, especially in its applications to industry.

A University of Wales was projected early in the fifteenth century and the project was revived in Cromwell's time, but it did not materialize until 1893. The constituent colleges at Aberystwyth, Cardiff, Bangor, and Swansea were founded in 1872, 1883, 1884, and

1920 respectively. They are thoroughly indigenous to the Principality, much of the funds having been collected in very small sums from workpeople at the doors of churches and chapels.

The two modern Irish Universities both date from 1909. In 1850 a Royal Charter was granted to the then recently established Queen's Colleges of Belfast, Cork, and Galway, constituting them a Federal University, which was absorbed in 1880 in the Royal University. University College, Dublin, representing the Catholic University established by the Irish Bishops in 1854, became with the Cork and Galway Colleges in 1909 constituents of the National University of Ireland, while Queen's College, Belfast, became the Queen's University of Belfast.

WOMEN were first admitted to Degrees by the University of London in 1878. Bedford College had already been founded in 1849; the three other colleges for women in connexion with the University of London were founded, Westfield in 1882, Holloway in 1886, and King's in 1902. The last was merged in King's College, London, in 1885. King's College of Household and Social Science was founded in 1908 as a department of King's College for Women, and became a separate "School" of London University in 1928. Of the Cambridge colleges Girton originated at Hitchin in 1869, and was removed to the near neighbourhood of Cambridge in 1873; Newnham was founded in 1880. The colleges at Oxford were opened, Lady Margaret in 1878, Somerville in 1879, St. Hugh's in 1886, and St. Hilda's in 1893. Cambridge admitted women informally to Tripos examinations in 1872 and to the titles of degrees in 1923; in 1926 women were declared eligible to university teaching posts and therefore to membership of boards of faculties. Oxford admitted them to examinations in 1884, to degrees and full membership in 1920, and to university teaching posts in 1927. Women have been admitted to the Universities of Scotland since 1892, Durham since 1896, Dublin since 1904, and to all the modern Universities from their foundation.

Unlike those of most other countries, the Univs. of the United Kingdom have been, since their origin, independent of State control. Another distinguishing characteristic of British Univs., as compared with those of the Continent of Europe, has from the earliest days been the provision of halls of residence, or COLLEGES, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts.

Pursuant to the recommendations made by the Royal Commission of 1919, important constitutional and other changes have been effected at Oxford and Cambridge by the Statutory Commissioners appointed in 1923. See the sections relating to these universities.

ADMISSION AS AN UNDERGRADUATE. Before inserting a student's name in *matricula* all Univs. exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree. This is tested either by a *matric. examn.* held by the Univ. or group of Univs. concerned (Camb. "Previous," Oxf. "Responsions," Scot. Univs. "Prelim."), or by the candidate's performance in an equivalent examn. The subjects in which the candidates are tested

in the matric. examn. by the Univs. are *English, one or more languages other than Eng. (classical or foreign), Maths., and/or Science*; and a pass in 5 subjects at one and the same examn. is, as a rule, demanded. The grouping of the several subjects varies in the different Univs. For details see App. XX. Many of the Oxford and Cambridge Colleges make the passing of Responsions or the Previous or equivalent examns. a condition of admission to the College. Bristol has discontinued its matricn. examn. as superfluous in view of the institution of the School Certificate and Higher Certif. examns. (v. *infra*), and the admission to them of candidates not presented by schools. Durham has followed Bristol's example so far as the Colleges at Newcastle are concerned. Reading holds neither school examns. nor, except for candidates of mature years (25 or over), a matriculation examn., accepting, instead, credentials required by London or the Joint Board.

*A Matriculation Examination for persons of mature years* has been instituted by the above-mentioned Joint Board (v. App. XX.), and by London, Belfast, and Reading. Armstrong College has a special examn. for candidates proposing to read for a degree in Applied Science who have been engaged in technical pursuits for 2 years.

*School Examinations.—England and Wales.* A scheme originated by the Board of Education in consultation with all the Univs. of England for co-ordinating Secondary School examns. came into operation in England in 1918 and in Wales in 1920. Under this scheme the following are recognized by the Board as approved—

I. As "First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in a certain number of subjects in the three main groups of School subjects (English subjects, Foreign Languages, Mathematics and Science) would entitle a candidate to admission to a Univ. :—

"School Certificate" examns. of the Oxford and Cambridge Schools Examn. Board, of the Oxford Delegacy for Local Examns. and the Cambridge Local Examns. Syndicate (formerly known as "Senior Local" examns.), of the Univs. of Bristol and Durham, and of the Northern (Birm., Leeds, Liv., Manc., Sheff.) Univs. Joint Matricn. Board; "The General School" examn. of London; and the School Certificate examn. of the Central Welsh Board.

In addition to the three groups of subjects above mentioned, First Examinations include a fourth group of optional subjects, such as Music, Drawing, Manual Work, Needlework, Housecraft. Excellence in these subjects will not exempt a candidate from the necessity of reaching a minimum standard in each of the other groups.

II. As "Second Examinations," suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn., followed a more specialized course :—The "Higher Certificate" examns. of the Oxford and Cambridge Schools Examns. Board, Bristol, Durham, the Northern Univs. Joint Board, London, Oxford (Delegacy for Local Examns.), Cambridge (Syndicate for Local Examns.), and the Central Welsh Board.

With a view to securing equality of standard and the acceptance of the certificates by Univs. and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a "Secondary School Examinations Council" composed of 23 representatives of the Examining Bodies, County Councils Assocn., Assocn. of Municipal Corporations, Assocn. of Education Committees, and Teachers' Registration Council. The Examinations Council keep in close touch with the Examining Bodies and conduct a regular scrutiny of their statistics, regulations, and syllabuses. In addition a detailed investigation of the methods and standards of award is held from time to time. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies (supplied in all cases by the Univs.) ; that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate ; and that estimates of the merits of their candidates in each of the subjects offered by them, if submitted by Head Masters and Head Mistresses, are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants from the Board of Education to take these examns., but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional grant in respect of the examn. fees of each pupil so entered. The entrance of pupils attending grant-earning secondary schools for any examination below the stage of a First Examn. is closely restricted.

Among the functions of the Secondary School Examns. Council is negotiation with Univs. and Professional Bodies for the acceptance of the examn. certificates as exempting the holders from certain other examns. They are now accepted, subject to various qualifications, by all English Univs. and by a number of professional bodies (v. Appendices), as exempting from entrance examns. The "Second Examinations" are also recognized by many Univs. for exemption from Intermediate Exams. and for admission to Honours courses, etc.

*Wales.* The School Certificate of the Central Welsh Board showing a pass with credit at one and the same examn. in all the required subjects of the matricn. examn. is accepted by the Univ. for matricn. ; so, also, are certifs. of the other First Examns. (except Durham's), the Scotch Educn. Dept.'s Leaving Certif. (Higher Grade), the Senior Certif. of the Ministry of Educn. for Northern Ireland, and the Leaving Certif. of the Intern. Educn. Commissioners of the Irish Free State.

*Scotland.* On December 31, 1918, there came into operation Ordinance No. 70 (General No. 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as " the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education," and sets up an Entrance Board to regulate the application of this principle. This Board, which has superseded the Joint Board of Examiners for the Scottish Univs., has provided by " General Regulations " for the recognition of Group Certifs. of the Scotch Education Dept. and, in the case of Schools in Scotland not

regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It has similarly provided for the recognition of Leaving or other certifs., in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional circumstances, have not been able to fulfil the normal conditions is provided for by "Special" Regns.

*Ireland.* The Leaving Certificate of the Dept. of Education of the Irish Free State or the Senior Certificate of the Ministry of Education of Northern Ireland is accepted by the Univ. of Dublin and the National Univ. of Ireland, subject for subject, in lieu of their matricn. examns., and (subject to special conditions in respect of Maths.) by Belfast. Belfast and the N.U.I. also accept, subject for subject, the Scottish Leaving Certif. (Higher or Hons.), the Higher Certif. of the Ox. and Camb. Schools Examn. Board, and (Belfast only) the Bristol School Certif. For admission to the Univ. of Dublin the Senior Lecturer is now allowed to recognize examns. as "equivalent" to the Entrance examn., and does so recognize the Scottish Leaving Certificate and others.

**SCHOOL EXAMINATIONS IN OTHER COUNTRIES.** In Appendix XXI. are to be found particulars of the recognition accorded by certain Univs. in the United Kingdom to School-leaving examns. conducted by Ministries of Education in Canada, Australia, South Africa, and Egypt, and Boards of High School and Intermediate Education in India. This is done explicitly by Oxford, Cambridge, the Northern (English) Univs. Joint Board, Wales and the Scottish Univs. Entrance Boards.

**ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES.** Certificates which would qualify for admission to Univs. outside the United Kingdom are accepted as satisfying, in whole or in part, the matricn. requirements of the Univs. of the United Kingdom. Intending students should apply for information to the Registrar of the Univ. in which they desire to be matriculated. The regulations are summarized in Appendix XXI.

The NUMBER OF FULL-TIME STUDENTS in Universities and University Colleges in receipt of Treasury Grant is given in the Returns published by the University Grants Committee for the year 1927-28 as 43,262, including 13,012 women. To these must be added the students of the Irish Universities and of certain schools of the University of London not in receipt of Parliamentary Grant, making a total of, approximately, 48,600. The above statistics do not include the students of the institutions, other than Universities and University Colleges, in which professional education of university grade is given in Theology, Teaching, Agriculture, Mining, etc.; nor students reading privately for the external degrees of the University of London, for the Bar, etc. This makes comparison with statistics of other countries difficult, as does also the fact that the work of the higher forms of many of our secondary and "public" schools corresponds with the earlier stages of the work done in Colleges and collegiate departs. of some foreign Univs., e.g. in America.

**A NATIONAL UNION OF STUDENTS** of the Univs. and Univ. Colleges

of England and Wales was formed in Feb. 1922 "to represent the students of this country nationally and internationally," and to promote their educational and social interests in entire independence of all political or religious propaganda. It is a federation of Unions, Guilds, and Student Representative Councils. It is affiliated to the *Confédération Internationale des Étudiants* (see Appendix XXV.), through which it has taken an active part in promoting foreign travel of English students and stimulating intercourse with students abroad. A particularly important Dept. is that for Exchange and Tuition Visits which arranges each year many hundreds of exchanges between British and foreign students.

Similar National Unions exist in Canada, South Africa, Australia, and New Zealand, and there have been two conferences of Student Unions of the Empire, the first held in London and Cambridge in July 1924, and the second in Montreal in Sept. 1929. The purpose of these conferences has been to discuss ways and means of practical co-operation among the students of the Empire and questions of general Imperial interest. As a result of them it is possible to arrange periodic visits of Debating Teams from Gt. Britain to the Dominions and *vice versa*, and among the various Dominions themselves. Large groups of South African students have visited England on two occasions, and such visits will probably become annual events. The formation of the Dominion Students' Athletic Union with headquarters in London was a direct outcome of the first Imperial Students' Conference, and the existence of this Union makes it possible to arrange the participation of Dominion Teams in the International University Games and to promote athletic fixtures between teams of Dominion Students resident in England and teams representing the British Universities. *Publication*—"The University," once a term, 6d. *Address*—3 Endsleigh Street, London, W.C.1.

THE STUDENTS' REPRESENTATIVE COUNCILS OF SCOTLAND hold an annual inter-univs. conference, and jointly, as a national organization, count as one member of the International Confederation of Students. They have a joint *International Academic Committee* which appoints "Academic Consuls" in the principal univ. centres in countries outside Great Britain. They have published a handbook on Foreign Study (Darren Press, Edinburgh, 3rd edition, 1926; 1s.).

TERMS. The academic year is divided into three terms, which run from about Oct. 1 to the middle of Dec.; middle of Jan. to end of March; middle of April to end of first week in July.

FEES are charged by all Universities. They vary somewhat in the different Univs., but are, on the average, for Arts £30, for Science £36, for Engineering or for Medicine £30 to £60 per annum in English Univs. In Scottish, Welsh, and Irish Univs. the fees are lower.

SCHOLARSHIPS. Few countries offer a richer variety than England and Wales of facilities for access to the highest forms of education. The lead of the "pious founder" has been followed by city companies and professional bodies, and, since the Education Act of 1902 brought higher education within the purview of Local Authorities, by the State. The

response to the principle which found expression in the words of Mr. Fisher's Education Act of 1918 that "children and young persons should not be debarred by inability to pay fees from receiving the benefits of any form of education by which they are capable of profiting" has been so remarkable that, on March 31, 1928, L.E.As. were assisting more students to take courses at Univs. (5735) than they were helping to obtain Secondary education before the Act of 1902 was passed (about 5500). From the grant-aided Secondary Schools of the country alone, with their 394,000 pupils, over 157,000 of whom hold free places, a steady stream of some 3600 students, more than 64 per cent. of whom commence their education in Public Elementary Schools, passes each year to the Univs. and University Teachers' Training Departments. The number of scholarships available and their variety, as regards conditions of tenure, put any attempt to give a comprehensive list out of the question. Those in search of assistance should apply for their Local Education Authority's Scholarship Handbook.\* The main agencies in England and Wales by which scholars are assisted to attend Univs. may be classified, in the order of the probable number of awards made and the annual expenditure incurred: (i.) *Local Education Authorities*. The majority of awards are given to candidates who have done good work in College Scholarship and the Higher School Certificate Examns., though a number of Authorities hold examinations of their own or grant assistance upon a consideration of school records. The expenditure recorded in the Education accounts of L.E.As. for 1927-28 in aid to students at Univs. was £269,396. (ii.) "*Open*" *Scholarships awarded by the Univs. or their individual Colls.* A brief notice of scholarships open to graduates will be found in the general information regarding each Univ. No particulars are readily available to show the total number of entrance scholarships and exhibitions awarded annually. About 550 awards are made each year by Oxford and Cambridge. (iii.) *State Scholarships*. About 200 are awarded annually by the Board of Education to boys and girls in full-time attendance at grant-aided Secondary Schools, on the recommendation of the Bodies that conduct the Higher Certificate Examns. The scholarships are tenable by students reading for an Honours degree. Analyses of these awards and the courses and degrees taken will be found in the statistical information published annually by the Board of Education. The expenditure upon awards current during the year which ended on the 31st March 1928 was £58,958. (iv.) *Leaving Scholarships and Exhibitions awarded by Endowed Schools*. The expenditure upon such awards current in the year 1927-28 from the 458 Endowed Schools on the grant list of the Board was £39,975. To these must be added 346 Schools recognized as efficient by the Board, but not on the grant list, for which figures are not readily available. (v.) *Charities unattached to Schools, but with power to offer Exhibitions under their Instruments of Government*. The number of educational charities

\* Some of the Scholarship Handbooks, e.g. that published by the London County Council (P. S. King & Son, Ltd., 14 Gt. Smith St., Westminster, S.W.1, price 3d.) include a great deal of information in regard to general sources of assistance open to the whole country as well as assistance available for persons actually resident in the particular area.

in the country is extremely large. Information in regard to scholarships available in any particular area can usually be obtained by application to the L.E.A. Some of the larger funds open to the whole country are indicated in App. XXIII. Further particulars will be found in the Annual Charities Register and Digest. It should be understood that assistance is often accorded from complementary sources. The holder of a Major Scholarship of a L.E.A. may, for instance, also hold a State Scholarship or College award, or possibly (with an upward limit of the total amount) all three. In Ireland conditions are similar.

For Scholarships in Scotland, v. p. 279 f.

**LIBRARIES.** (See heading Libraries under the Univs. below.) A University Library Co-operation Inquiry Office has been established by the Association of University Teachers with the help of a grant from the Carnegie United Kingdom Trustees. It endeavours to discover for research workers in what library, if any, any publication or MS. is available, and whether it can be lent. Address: L. T. Oldaker, The University, Edmund Street, Birmingham. Any inquiry should state the libraries which the inquirer has already tried in vain. Full details of all university and college libraries may be found in *The University and College Libraries of Great Britain and Ireland: a Guide to the Material Available for the Research Student*, by L. Newcombe, Bumpus, 1926. This book gives details of the contents of some 300 university and college libraries, with special reference to those collections which are likely to be of value to the research student. The Association of Special Libraries and Information Bureaux, 26 Bedford Sq., W.C.1, was established in 1925 with the help of a grant from the Carnegie Trustees. In 1928 the Association published in conjunction with the Oxford Univ. Press *The Aslib Directory*, a guide to sources of specialized information in Great Britain and Ireland. Price £1: 1s. See also p. 10.

**PARLIAMENTARY GRANTS TO UNIVS. AND UNIV. COLLS.** The grant for 1924-25 was £1,242,570; for each subsequent year £1,550,000.

**REPRESENTATIVES IN PARLIAMENT.** In U.K.—Oxford (2), Cambridge (2), London (1), Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield, Reading (2), Wales (1), Scottish Univs. (3), Belfast (1). In N. Ireland—Belfast (4). In Irish Free State—Dublin, Trin. Coll. (3), Nat. Univ. of I. (3).

**ADULT EDUCATION.** *University Extension* Courses have been promoted by the Univs. of Cambridge, Oxford and London for the last 50 years. At Cambridge they are known as local lectures and were initiated in 1873. Oxford and London took up the work soon afterwards. These courses number several hundreds and vary in length from 6 to 25 lectures; the longest extend over several years.

In 1903 *The Workers' Educational Association* was founded. In 1907 relations were established with Oxford Univ. Since that date relations have been established with all the Univs. and Univ. Colleges, and there are joint committees composed of representatives of the

Univ. or College and the W.E.A., which promote Preparatory Classes, Three-Year Tutorial Classes, Advanced Classes, Vacation Courses, etc. Most of these classes and courses are recognized by the Board of Education for purposes of GRANT UNDER CHAPTER II. OF THE ADULT EDUCATION REGULATIONS.

The *Adult Education Committee* was appointed by the President of the Board of Education, in April 1921, to promote the development of liberal education for adults, and in particular to bring together national organizations concerned with the provision of adult education, so as to secure mutual help and prevent overlapping and waste of effort; to further the establishment of local voluntary organizations for the purpose and of arrangements for co-operation with Local Education Authorities; and to advise the Board of Education upon any matters which the Board may refer to the Committee. It has been reappointed by successive Presidents. It includes representatives of all Univs. in England and Wales, and of the principal voluntary organizations engaged in the work of Adult Education; also three representatives of Local Education Authorities. Assessors are appointed by the Board of Education, the Army Council and the Air Ministry. Since 1921 the Committee has been engaged on many inquiries, and their Reports have been published by H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2. The more recent are: No. 6—The Drama in Adult Education. (1s.) No. 7—Full-time Studies. (6d.) No. 8—Natural Science in Adult Education. (6d.) No. 9—Pioneer Work and other Developments in Adult Education. (6d.)

The *British Institute of Adult Education*, 39 Bedford Square, London, W.C.1, has compiled a Handbook and Directory of Adult Education (Year Book Press, London, 2s. 6d.), and issues a half-yearly review, *The Journal of Adult Education*, 2s. 6d.

A World Conference on Adult Education was held in Cambridge under the presidency of Dr. Albert Mansbridge during Aug. 22-29, 1929. There were over 400 delegates from nearly every country, including 85 official representatives of British Governments of the Empire. In addition to the general sessions which dealt with the broader aspects of the movement, there were numerous sectional discussions on rural education, women's problems, settlements and educational work, books and adult education, radio in adult education, education of seafarers, university extension, parental education, etc.

THE CENTRAL LIBRARY FOR STUDENTS. Its function is to supply those books which the local library is unable to provide. It does not issue books direct to individuals, but only to the library to which they have access. Every endeavour is made to provide, through its system of Outlier Libraries, any type of educational or vocational book, pamphlet or periodical (costing not less than 6s., and *exclusive of text-books for exams.*), on any subject, if a copy is not in the local library. Advanced scholars and research students may thus obtain books and periodicals not accessible to them elsewhere. No charge is made for books lent, but postage both ways must be paid by the borrowing library, which accepts full responsibility for the safety and return of the books. The address of the local library, if not known, will be supplied

on application to The Librarian, C.L. for S., Galen Place, Bury Street, London, W.C.1.

CONFERENCES. In May 1917 representatives of the Universities and University Colleges met in Conference to devise measures for the further encouragement of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor, obtainable by graduates of British and foreign Univs. after a course of advanced study and research. The conditions and regulations for such a degree were further considered at adjourned meetings held on May 10, 1918, Jan. 24, 1919, and March 14, 1919. The resulting legislation is summarized on p. 18. Interchange of Teachers and Students, the Tenure of University Offices, Superannuation and Provision of Pensions, and other matters have been considered by Conferences specially convened at various times.

In May 1918 Mr. Balfour summoned at the Foreign Office a Conference of representatives of all the Universities for the purpose of putting before them a proposal that on the invitation of the Govt. of the U.S. a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Univs. the desirability of establishing a representative body to which matters of interest to the Univs. might be referred by Govt. Departments. He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Univs. and represent them in their relations with the Univs. of other nations. At a subsequent meeting Conference resolved that "it is desirable in the interests of the Univs. and of the nation that steps be taken to promote co-operation and mutual consultation among the Univs. of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each Univ. or a deputy appointed by him, together with the Executive Committee of the Universities Bureau, be appointed a **STANDING COMMITTEE** to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Govt., and to report from time to time to the Conference."

The Standing Committee of Vice-Chancellors has dealt with such matters as the presentation of the case for Increased Grants to Univs. and Univ. Colleges, leading to the Deputation to the Chancellor of the Exchequer which was received in Nov. 1918, and to similar deputations received in 1924 and 1929; the relations of the Univs. and Univ. Colleges to national schemes for the Promotion of Research; the question of controlling the number of students in professional and other subjects; the Recognition of the Special Army Education Certif., as qualifying for matriculation; Fees for Courses of Undergraduate and for Post-graduation Study and the possibility of adopting a uniform scale in each of the several Faculties of all Univs. of the U.K.; the relations of the Univs. to Training Colleges for Teachers; qualification for admission to courses leading to the Ph.D. degree; recognition of foreign school-leaving certificates as qualifying for matriculation; salaries of members of staff; recognition of records of students from Australia, Canada, S. Africa, and India; specialization in certain subjects of study by certain Universities; the mutual recognition of Matriculation

examns. and Degree courses of study; Income-tax on funds invested for provision of pensions; Inhabited House Duty on hostels and other legal liabilities of Universities; the replenishing of the libraries of the Univs. of Louvain, Nancy, Tokio.

At the ANNUAL CONFERENCE of the Univs. of Great Britain and Ireland held in London on May 11, 1929, the subjects discussed were: "(1) The general standard of attainment required for admission to a university course; and in relation thereto, the curricula of the last two years of school prior to entrance to the University. (2) The study of Biology in the Universities."

INTERNATIONAL CONFERENCES. Following the Mission to America already referred to, the British Univs. in May 1919 accepted an invitation to appoint a delegation to visit the Univs. of France as guests of the French Republic. In the autumn of 1919 a similar invitation was accepted from the Belgian Govt. In July 1920, 17 Professors of English, and, in July 1921, 32 Professors of History, from many parts of the U.S.A. and the British Dominions overseas, met their colleagues of the Universities of the U.K. in conference at the invitation of the University of London to discuss methods of research and teaching and to elaborate plans of co-operation. The Conference of 1921 synchronized with the opening of the University of London Institute of Historical Research. A Conference of British and Swiss Universities was held at Bâle in 1922. By invitation of Columbia University a Conference of British and American teachers of English was held in New York in June 1923. An Anglo-American Conference of Professors of History took place at Washington and Richmond (Virginia), Dec. 27-30, 1924, and in London (Institute of Historical Research), July 12-17, 1926.

INTERCHANGE OF STUDENTS between the Univs. of the Dominions and the Univs. of the U.K. See p. 7.

#### CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE

The FIRST CONGRESS of the Univs. of the Empire was held in London on July 2 to 5, 1912. All the Universities of the Empire were represented. Subjects discussed: "Specialization among Universities," and "Inter-University Arrangements for Post-graduation and Research Students," Chairman, the Earl of Rosebery and Midlothian, Chancellor of the Univs. of London and Glasgow, and Lord Rector of the Univ. of St. Andrews; "The Relation of Universities to Technical and Professional Education and to Education for the Public Services," and "Interchange of University Teachers," Chairman, the Earl Curzon of Kedleston, Chancellor of the Univ. of Oxford; "The Problem of Universities in the East in regard to their Influence on Character and Moral Ideals," and "Residential Facilities," Chairman, Mr. A. J. Balfour, Chancellor of the Univ. of Edinburgh; "Conditions of Entrance to Universities, Equivalence and Mutual Recognition of Entrance Tests," and "Action of Universities in Relation to the After-careers of their Students," Chairman, Lord Rayleigh, Chancellor of the Univ.

of Cambridge ; " Courses of Study and Examinations for other than Degree Students, University Extension and Tutorial Class Work," Chairman, Lord Kenyon, Senior Deputy Chancellor of the Univ. of Wales ; " The Establishment of a Central Bureau, its Constitution and Functions," " The Position of Women in Universities," and " Representation of Teachers and Graduates on the Governing Body of a University," Chairman, Lord Strathcona and Mount Royal, Chancellor of the Univs. of Aberdeen and McGill.

The SECOND CONGRESS of the Univs. of the Empire met in Oxford on July 5 to 8, 1921. All members received, and upwards of 300 accepted, offers of hospitality, either from a College or from a resident member of the Univ., for the four days during which Congress was to sit. Including members of the Univ. of Oxford, who attended without enrolment, and those who returned to London and other places for the night, the attendance numbered about 550. The 18 Home Univs. and 36 of the Univs. overseas were represented, the visitors from overseas numbering 100. Subjects discussed : " The Universities and the Balance of Studies," Chairman, the Marquess Curzon of Kedleston, Chancellor of the Univ. of Oxford ; " The Universities and the Teaching of Civics, Politics, and Social Economics," and " The Universities and Secondary Education," Chairman, Mr. A. J. Balfour, Chancellor of the Univ. of Cambridge and of the Univ. of Edinburgh ; " The Universities and Adult Education," Chairman, Viscount Haldane, Chancellor of the University of Bristol ; " The Universities and Technological Education," Chairman, the Marquess of Crewe, Chancellor of the Univ. of Sheffield ; " The Universities and Training for Commerce, Industry, and Administration," and " The Universities and the Training of School Teachers," Chairman, Dr. J. C. Irvine, Principal, in the place of the late Lord Balfour of Burleigh, Chancellor of the Univ. of St. Andrews ; " University Finance," Chairman, Sir Robert Stout, Chancellor of the Univ. of New Zealand ; " The Universities and Research," Chairman, Lord Robert Cecil, Chancellor of the Univ. of Birmingham ; " Interchange of Teachers and Students," Chairman, Lord Kenyon, Pro-Chancellor of the Univ. of Wales.

The THIRD CONGRESS of the Univs. of the Empire was held in Cambridge on July 13 to 16, 1926. Owing to the large number of students in residence in the Colleges the majority of the members received private hospitality. Excluding resident members of the University the attendance numbered about 350. 121 were visitors from overseas. Subjects discussed : " The State and the University," Chairman, the Earl of Balfour ; " The Desirability of Establishing in London a School of Advanced Legal Studies," Chairman, the Warden of All Souls, deputy for Viscount Cave ; " Co-operation in Research throughout the Empire," Chairman, the Marquess of Londonderry ; " Mutual Recognition of Examinations and of Time Spent in Study Elsewhere," Chairman, Sir Matthew Nathan ; " The Desirability of making Provision for the Physical Welfare and Training of Students and the Organization of Athletics with a View to securing more General Participation," Chairman, the Vice-Chancellor of Leeds, deputy for

the Duke of Devonshire ; " The Actual Working of the Ph.D. Scheme," Chairman, Viscount Cecil of Chelwood ; " The Desirability of Articulating other Pension Schemes with the Federated Superannuation System of Great Britain and Ireland," Chairman, Viscount Haldane of Cloan. Sectional Meetings on " University Statistics " (Sir Theodore Morison), " Interchange " (Sir Henry A. Miers), " The Classification of Honours Graduates " (Sir Donald MacAlister), " An Imperial Policy in Education " (Sir Frederick D. Lugard).

*Reports of the Proceedings of the Congress, 1912, 1921, 1926, G. Bell & Sons, London, price each £1 : 1s.*

#### DEGREES CONFERRED BY THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

The older Universities have developed out of the Univs. of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Univs. in other lands. Their titles of degrees afford an illustration of this. A Univ. of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, examns. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master, or professor. Still following this ancient usage, the degree in Scotland is the mastership, M.A. In Oxford, Cambridge, and Dublin, where the examn. for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild, or Senate, follows without further examn. after an interval of two or three years, but in no case less than six years from matricn. For convenience in standardizing the attainments of their alumni, modern Univs. have divided the degree into stages—usually described as the " first " and " higher " degrees—Bachelorship, Mastership, and Doctorate. The conferment of a first degree now marks the satisfactory completion of a three or four years' Univ. course.

At Oxford and Cambridge the Faculty of Arts is not subdivided. B.A. is the " first degree," whether the course leading to it be literary or scientific. In Trinity College, Dublin, a B.Sc. course, including no classical language, was introduced in 1926, but it is expected that most Science students will continue to take the B.A. which remains the primary degree, and must be obtained before proceeding to any other degree except Mus.B., Mus.D., B.Sc. and Ph.D. At Cambridge there is no B.Sc. At Oxford the B.Litt. and B.Sc. are awarded for special study and research, like the M.Litt. and M.Sc. of Cambridge. At St. Andrews the B.Phil. or the B.Litt. may be taken either conjointly with, or after, the M.A.

At all other Univs. a course in Arts leads to the B.A. (in Scotland,

M.A.), in Science to the B.Sc., in Commerce to the B.Com., and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine, and Music has its own bachelor's degree.

The signatures of the titles of degrees vary. In the following list the more usual signature is placed first :

*Bachelor of Arts* : B.A.

*Bachelor of Science* : B.Sc.

*Bachelor of Science in its various applications* : B.Sc. (Engineering), B.Eng. Liv., Sheff.; B.A.I. Dub.; B.Sc. (Metallurgy), B.Met. Sheff.; B.Sc. (Mining), B.Sc. (Mining Engineering) Glas.; B.Sc. Tech.; B.Sc. (Applied Chemistry); B.Sc. (Naval Architecture); B.Sc. (Veterinary Science), B.V.Sc. Liv.; B.Sc. Agr., B.Agr. Bris., Belf., Agr.B. Dub., B.Agr.Sc. N.U.I.; B.Sc. (Forestry), Agr.B. (Forestry) Dub.; B.Sc. (Horticulture); B.Sc. (Estate Management); B.Sc. (Dairying) Reading; B.Sc. (Economics); B.Sc. (Commerce) London; B.Sc. (Public Health), B.Hy. Durh.; B.Sc. (Pharmacy) Glas.; B.Sc. (Architecture) Glas.

*Bachelor of Commerce* : B.Com. or B.Comm., B.Com.Sc. Belf.

*Bachelor of Architecture* : B.Arch.

*Bachelor of Dental Science* : B.D.S., B.Ch.D. Leeds, B.Dent.Sc. Dub.

*Bachelor of Education* : Ed.B. (of the Scottish Univs., two years after a first degree).

In Theology the title of the first degree is B.D. In Law it is LL.B., B.C.L. Ox. Durh., B.L. or (open only to graduates in Arts) LL.B. the Scottish Univs. In Medicine the signature of the title is M.B., B.M. Ox.; in Surgery, Ch.B., B.Chir. Camb., B.Ch. Dub. Ox. Wales, Belf., B.S. Durh. Lond.; in Obstetrics, B.A.O. Belf. Dub. N.U.I. In Music, Mus.B., B.Mus. Birm. Durh. Ox. Wales.

*The Primate's Degrees* : Under powers conferred before the Reformation by the Pope, the Primate has the right to confer degrees. In recent years he has, on an average, conferred annually two doctorates.

### *Honours Degrees*

In all Univs. of the United Kingdom the first degree in Arts (or Science, if a separate faculty) may be obtained as an ordinary degree, or with Honours.

At Oxford the Honours Schools (B.A.) are in Literæ Humaniores, Mathematics, Natural Science (including Engineering), Jurisprudence, Modern History, Theology, Oriental Studies, English Language and Literature, Modern European Languages, and Philos., Politics and Economics.

At Cambridge (Triposes), in Anthropology, Classics, Economics, English, Geography, History, Law (B.A. and LL.B.), Mathematics, Mechanical Science, Modern and Mediæval Languages, Oriental Languages, Moral Science, Natural Science, Theology.

In Scotland : M.A. Hons. in Celtic, Classics, Econ. Science, English

(Aberdeen, Geography), History (St. Andrews, History and English), French, German, Italian, Spanish, or Celtic, Mathematics and Natural Philosophy, Mental Philosophy, Modern Languages (St. Andrews, Natural Science, Maths. and Physical Science, Philosophy), Sanskrit, Semitic Languages ; B.Sc. Hons. in various branches of Science.

At Dublin (Moderatorships), in Mathematics, Classics, Mental and Moral Philosophy, Experimental Science, Natural Science, History and Political Science, Modern Literature, Legal and Political Science, Engineering Science, Celtic Languages, Oriental Languages.

At London, B.A. Hons. in Classics, Latin, Greek, Mathematics, Anthropology, Archaeology, English, French, German, Celtic, Italian, Spanish, Portuguese, Dutch, Scandinavian Langs., Russian, Polish, Czech and Slovak, Serbo-Croat and Slovene, Indo-Aryan, Arabic, Persian, Hebrew and Aramaic (including Syriac), Chinese, Philosophy, Psychology, History, Sociology, Geography ; B.Sc. (Special), Mathematics, Astronomy, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Human Anatomy and Morphology, Psychology, Anthropology, Statistics ; B.Sc. (General)—three subjects ; B.Sc. Hons. (Economics) ; B.Sc. Hons. (Engineering) ; B.Sc. Hons. (Mining) ; B.Sc. Hons. (Metallurgy) ; B.D. Hons. ; LL.B. Hons. ; M.B., B.S. Hons. : B.D.S. Hons.

In other Univs. Honours are obtainable in a variety of subjects.

### *Recognition of Study at other Universities*

**UNDERGRADUATES.** The Univs. of Bristol and Leeds accept attendance for 1 yr. at any Univ. requiring residence as a qualification for a degree. At London any person who has passed the external Intermediate examn. before registering as an Internal student may take the Final Examn. after a 2 yrs.' course and qualify for a degree in the subsequent year. At Oxford members of certain Affiliated Colleges of the United Kingdom, and of certain approved home, colonial, and Indian Univs., who have attended lectures for at least 2 yrs. and attained a prescribed standard, are allowed to count the first term kept by residence as the fourth. At Cambridge a similar privilege is allowed to certain classes of students. At Dublin students who have spent 2 yrs. in Arts studies at certain Univs. and have passed the examns. belonging to that period are given credit for the first academic year. At Durham a similar concession is made to students of science. In the Scottish and certain other Univs. attendance at lectures and examns. passed in other Univs. may be recognized by the Board of Studies, or Senate, after consideration of each case. For Belfast regulations consult section.

**GRADUATES.** The remission to graduates of any other approved University of 2 yrs. of the 4 yrs.' course is made by the Univ. of Dublin, of 1 yr. of the 3 yrs.' course by Bristol, London, and Sheffield, and the N.U.I. Similar remissions are made by Oxford and Cambridge ; see their respective sections. At Oxford graduates of a home Univ. and others, who can satisfy the Education Committee that they have received a good

general education, are eligible to apply for admission to an approved course of special study and research for the degree of B.Litt. or B.Sc., and, if successful, may supplicate for the degree after completing 2 yrs. of residence. At Cambridge graduates suitably qualified are admitted as Research students and may, after the satisfactory completion of a 2 yrs.' course and the submission of a dissertation, obtain the degree of M.Litt. or M.Sc. At Dublin a graduate of any approved Univ. who possesses a degree the equivalent of Moderatorship may, after 1 yr. of advanced study and research, present himself for examn. for the degree of M.Sc. Certain Univs. which have not adopted ordinances to that intent are prepared to consider applications from graduates of other Univs. who desire to read for higher degrees for remission of standing or exemption from examinations.

### *Higher Degrees*

*M.A.* At Cambridge a Bachelor of Arts may, without further examn., proceed to the M.A. at the close of the 6th yr. after the end of his first term; at Oxford in the twenty-first term after matriculation; at Dublin 3 yrs. after passing the B.A. examn. At Durham and Sheffield graduates in Honours (Durham—1st or 2nd class) of 3 yrs.' and 1 yr.'s standing respectively are admitted to the M.A. without examn.; other graduates must pass the M.A. examn. or (Sheffield) present a thesis. Other Univs. exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examn., or both, of 1 yr. at Birmingham, Leeds, Belfast, and the N.U.I.; of 1 yr. from graduates with Honours, and 2 yrs. from others, at Bristol, Manchester, and Wales; of 2 years from all graduates at Liverpool, London, and Reading. Graduates of approved Univs. can obtain the Mastership after 1 yr. of advanced study and research at Birm. and the N.U.I.; after 2 yrs. at Bris., Leeds, Liv., Lond., Manc., Reading (thesis required), Sheff., Wales. At London a thesis is required from Internal students in all branches, except Mathematics, in which it is optional, and an examn. At Leeds, Liverpool, and Manchester persons who have not graduated can obtain the M.A. degree after a course of advanced study and research extending, usually, over 3 years.

*M.Sc.* This degree is not conferred by Oxford or any of the Scottish Univs. At other Univs. it can be obtained by graduates of the Univ. under conditions similar to those for the M.A. At Durham, by graduates, B.Sc., of 2 yrs.' (Sheffield 1 yr.'s) standing who took first or second class Honours, without further test. At Leeds, by graduates, B.Sc., with Honours, of 1 yr.'s standing (other Bachelors of any Faculty of 2 yrs.' standing), after research (thesis required). At Liverpool, by graduates, B.Sc., with Honours, after 1 yr.'s higher study (thesis required). At London, by Internal students of 1 yr.'s or 2 yrs.', by External students of 1 yr.'s standing from B.Sc. with thesis (optional in Mathematics) and examn. At Manchester, by graduates, B.Sc., of 1 yr.'s standing after thesis and examn. (at the discretion of the Faculty). At Cambridge the degree is conferred upon Research students. In other Univs. which confer the degree, graduates of approved Univs. can

obtain the M.Sc. on terms similar to those for the M.A.; at Durh. or Reading, after 2 yrs.' advanced study in the Univ.

Other titles of Mastership conferred by various Univs.—M.Litt., M.Com., LL.M., M.Mus., M.A.O. (Midwifery), M.Ch., Ch.M., M.Ch.Orth. (Orthopædic Surgery), M.D.S. (Dental Surgery), M.V.Sc., M.H. (Hygiene), M.Eng., M.Sc.Tech., M.Met., M.Arch., M.Ed.

*Ph.D.* All the Univs. of the United Kingdom now confer the degree of Philosophiæ Doctor. Candidates entering upon a course of advanced study and research for this degree must be at least 21 (Oxford, Camb., Brist., L'pool, Durh., Wales, Reading, St. Andrews, Dub.—no minimum age); must ordinarily be graduates either of the Univ. or of some other approved Univ.; must have pursued their studies at a Univ. or Univs. for a period of at least 3 yrs. (London—2, Reading and Dublin—not specified); must produce evidence of fitness for the proposed course of study and research. The course for the degree extends ordinarily over at least 2 years (Cambridge, Reading, Aberd., Glas., St. And. and N.U.I.—3 years). At its termination the student must submit a dissertation and may be required to qualify also by examn. The degree is granted in any faculty in which the Univ. is prepared to receive advanced students.

A candidate for the degree of Ph.D., as an External student of the Univ. of London, must have graduated in the Faculty of Theology, Arts, Music, Science, Engineering, or Economics in this University not less than 2 academic yrs. previously.

*Litt.D. and Sc.D.* The Doctorate in Letters or in Science is conferred upon Masters of Arts or Science (Wales and Dublin, Bachelors or Masters) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based either upon a special thesis, as at London, or upon published works. In certain Univs. the Faculty may require the applicant to appear for examn. An applicant for the Doctorate must be of 3 yrs.' standing from graduation at Dublin, Belf. (for D.Sc.), N.U.I. (for D.Sc. Pub. Health); 4 yrs.' at Manchester, London (for D.Sc. and External D.Lit.); 5 yrs.' at Birmingham, Sheffield, N.U.I. (for D.Litt., D.Litt. Celt., D.Sc.), and the Scottish Univs.; 6 yrs.' at Belfast (for D.Lit.), Durham (for D.Sc.), Leeds, Liverpool (5 yrs. from M.A. or, for D.Sc., from M.Sc. or Ph.D.), Bristol, Reading (4 yrs. from M.A. or M.Sc., 3 yrs. from Ph.D.); 5 yrs. from M.A., LL.M., M.Chir., M.Litt., M.Sc. or Ph.D., or 7 yrs. from M.B. at Cambridge; 7 yrs.' at Oxford, London (for Internal D.Lit.); 10 yrs.', Univ. of Wales (3 yrs. from M.A., 2 yrs. from Ph.D.), Durham (for Litt.D.).

Graduates of other Univs. who have been admitted to the degree of M.A. or M.Sc. (Oxford M.A., B.Sc., or B.Litt.; Dub. B.A.) can proceed to the Litt.D. or Sc.D. under the prescribed regulations. In Scotland Honours graduates of approved Univs. of 5 yrs.' standing who have spent the equivalent (4 terms) of two winter sessions in research at a Scottish Univ., have submitted a satisfactory thesis or published work, and have, if required, passed an examn., are admitted to the Doctorate. At Bristol the degree of D.Sc. can be obtained

without previous admission to the M.Sc. At London a candidate for the Doctorate may be specially exempted from the examn. for M.A. or M.Sc. ; at Manchester, from the examn. for M.Sc.

*D.Hy.* (Durh.) 2 yrs. from B.Hy. ; examn., thesis.

### *Degrees in Divinity*

*B.D.* is conferred after examn. in the Scottish Univs. and the Univs. of Durham, London, Manchester, and Wales ; after examn. and submission of a thesis at Dublin ; after examn. and the submission of a dissertation and published works at Cambridge (examn. may be omitted) and at Oxford. At London the course must extend over 3 yrs., subsequent to matriculation. In Scotland a candidate must be M.A. of a Scottish Univ. who has taken a theological course in a specially recognized institution, or a graduate of an approved Univ. who has taken a complete theological course of at least 2 yrs. in the Univ. conferring the degree ; at Dublin, a B.A. of 3 yrs.' standing ; at Durham, he must be a man who is either a graduate of 2 yrs.' standing or the holder of the Diploma in Theology ; in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs. at one of the Associated Theol. Colls. of the Univ. ; at Cambridge, a candidate must be M.A. or LL.M., and cannot be admitted to the degree until he is seven years from the Master's degree ; at Oxford, a candidate must be a M.A. or must be 26 yrs. of age, have followed a course of study in Christian Theology extending over 6 terms, and resided at the Univ. during 6 terms.

*D.D.* In Scotland the degree is conferred *honoris causa tantum*. At London it is conferred upon B.D.'s who took Honours in at least one subject, on presentation of a dissertation, followed by an examn., if the examiners so desire. At other Univs. it is conferred in consideration of published works, or a dissertation (and, at Oxford, a *viva voce* examn., if the judges so desire). The requisite standing is, at Cambridge and London, 5 yrs. from B.D. (or, for a Cambridge B.D., 12 yrs. from M.A.) ; Dublin, 8 yrs. from B.A. ; Durham, 10 yrs. from B.A. ; Manchester, 4 yrs. from B.D. (or 6 yrs. for B.D.'s of other Univs. who have studied for 2 yrs. at Manchester) ; Oxford, 14 yrs. from matricn., or, if he was admitted to the degree of B.D. as a graduate of another Univ., the candidate must have attained the age of 33 ; Wales, 6 yrs. from B.D.

### *Degrees in Medicine and Surgery*

*M.B., Ch.B.* The regulations for these degrees are practically uniform. Preliminary examinations satisfying the requirements of the General Medical Council (see Appendix XI.). Registration as a medical student by the G.M.C. is recommended. Satisfactory attendance during at least 5 yrs. at courses of study and hospital practice. Four examns. (in some Univs. grouped as three or two). All examns. must be passed at the Univ. granting the degree, with the exception of the first, in Chemistry, Physics, and Biology (and, at St. Andrews,

the second in Anatomy and Physiology), from which a candidate may be exempted if he has passed an equivalent examn. at the Univ., or elsewhere (Scottish Univs., Birmingham, Bristol, Dublin for S. African students only, Durham, London, Oxford Senior Students, Sheffield). Study in the Univ. for at least 3 yrs., except for the degrees as an External student of the Univ. of London, who must study for 1 yr. in a Univ. of the United Kingdom; or for 2 yrs., Scottish Univs., Leeds, Liverpool, Manchester; for 1 yr. College of Medicine, Newcastle-on-Tyne (Durham). The Univs. of Oxford and Cambridge exact 3 yrs.' residence, but allow students to do any or all of their medical work at other recognized medical schools. At Oxford, Dublin, Univ. of Wales, candidates must graduate B.A. (or B.Sc., Wales) before admission to a medical degree.

*M.D.* Candidates must be M.B., Ch.B. of, usually, 2 yrs.' standing (Oxford, 10 yrs. from matriculation; Cambridge, M.B. of 3 yrs.', or M.A. of 4 yrs.' standing; Leeds, Sheff., M.B., 1 yr.'s standing; Belf., M.B. 3 yrs., B.A. or B.Sc. with M.B. 2 yrs.; Dublin, of M.A. standing). A dissertation is compulsory in almost all Univs., followed by an examn., unless the examiners pronounce the dissertation to be of such merit as to render further examn. unnecessary.

*Ch.M.* Regulations similar to those for M.D.

*D.Ch.* (Durh.). Candidate must have devoted, subsequently to having obtained a registrable qualification, 3 yrs. (including one at least in the Univ. and 6 months at least abroad) to the study of Surgery and ancillary subjects.

*Degrees in Dentistry, in Pharmacy* (London, Manchester, Glasgow), *and in Veterinary Science* are obtainable under somewhat similar conditions.

### *Degrees in Law*

*LL.B.* (or *B.C.L.*), obtainable with Honours or as an ordinary degree. In the Scottish Univs. candidates must have graduated M.A.; at Dublin, Durham (*B.C.L.* and *LL.B.*), National University of Ireland, B.A. For *B.C.L.* at Durham candidates must be of 2 yrs.' standing from B.A.; for *LL.B.* the course is 3 yrs. for a candidate of Intermediate grade in Arts or Science. In Wales the course extends over 3 yrs. for a pass degree and 4 yrs. for an Honours degree. At Belfast graduates of this or of some other Univ. are eligible for the degree after a 2 yrs.' course in Law; at Oxford, after a 2 yrs.' course, if they obtain Honours in the *B.C.L.* examination. At Sheffield a graduate of a Univ. of the United Kingdom who has attended for 1 yr. the intermediate course and for 1 yr. the Final course in Law and for 2 yrs. studied in a recognized institution, may be a candidate for the degree. In the majority of Univs. there are two examns., Intermediate and Final. For *B.L.* v. Scottish Univs.

*LL.M.* Cambridge, Leeds, Liverpool, London, Manchester, Sheffield, Wales. By standing for graduates in Law with Honours, except at Leeds and Manc., where a dissertation must be presented. For others,

after examn. or (Camb.) dissertation, or both (Wales). Liverpool requires 2 yrs. of approved study.

*LL.D.* (or *D.C.L.*). By the Scottish Univs. the Doctorate is awarded only *honoris causa tantum*. Other Univs., unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation, or published works, and may require attendance at an examn.; in Dublin a candidate may elect to undergo examn. in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, 2 yrs. from Honours LL.B.; Belf., 3 yrs. from LL.B. if thesis; Dublin, 3 yrs. from B.A. of Dub., Ox., or Camb.; Manchester, 4 yrs. from LL.B.; National Univ. of Ireland and Sheffield, 5 yrs. from LL.B.; Oxford (*D.C.L.*), 5 yrs. from B.C.L.; Cambridge, 8 yrs. from first degree; Liverpool, 5 yrs. from LL.M.; Leeds, 6 yrs. from LL.B.; Durham (*D.C.L.*) and Wales, 10 yrs. from graduation or 3 yrs. from LL.M.

### *Degrees in Music*

The degrees of Mus.B. (or B.Mus.) and Mus.D. (or D.Mus.) are conferred by the Univs. of Cambridge, Dublin, Durham, Edinburgh, London, Manchester, N.U.I., Oxford, Wales; B.Mus. and M.Mus. Birmingham; Mus.M. Cambridge and M.Mus. Wales.

*Mus.B.* At Birmingham, Cambridge, Dublin, Edinburgh, London, Manc., N.U.I., and Wales, students must pass the same Entrance examn. (Matriculation, Previous, or Preliminary) as students in Arts; with, at Birmingham, where the degree is an Honours degree, an examn. in theory and in execution. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass Responsions. In Wales a student must attend an intermediate class in Arts or Science in addition to the Music course. Residence is not obligatory at London, Dublin, or Durham. At Edinburgh students must study Music in the Univ. for one whole winter session. As a rule, the course extends over 3 yrs. with two, or three, examns., including an exercise for the Final examn.

*Mus.M.* Conferred 3 yrs. (Wales—2 yrs.) after the Mus.B. for original work and dissertation (Birmingham), after examn. and exercise (Cambridge, Wales).

*Mus.D.* Conferred at Cambridge on graduates not less than 30 yrs. of age, in recognition of distinction as Composer; in Wales (*D.Mus.*) on B.Mus. of 10 yrs.' or M.Mus. of 3 yrs.' standing on consideration of original compositions; at Edinburgh on Mus.B.'s of 3 yrs.' standing, after examn. as Composer, Executant, or Theorist or Historian (Dissertation), and also *honoris causa tantum*; at Dublin on Mus.B.'s after further examn. or practical test; at London on Mus.B.'s of 2 yrs.' standing, Oxford 3 yrs.', Manchester 4 yrs.', Durham and N.U.I. 5 yrs.', after exercise and examn.

# UNIVERSITY OF BIRMINGHAM

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DEANS OF FACULTIES. See under "General Information," Faculties.

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and Sr. Demr.

Hill, W. C. O., M.D., Ch.B.  
Lectr. and Demr.

Lectrs. in App. Anat. :

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Maguire, C. C. W., M.D., M.R.C.P.  
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Brenner, O., M.D., M.R.C.P.

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F.R.S. Mason Prof.

Elliott, Jessie S., B.Sc. Lond.,  
D.Sc. Lectr.

Leach, W., M.Sc. Manc. Lectr.

Chesters, C. G. C., M.Sc., B.Sc.  
Glas. Asst. Lectr.

### *Brewing and the Biochemistry of Fermentation*

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Norris, F. W., B.Sc., Ph.D. Lond.,  
A.I.C. Lectr.

Preece, I. A., B.Sc., A.I.C.  
Asst. Lectr.

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Ph.D. Gött., F.R.S.

Carter, S. R., D.Sc., F.I.C.  
Mason Prof.

Sr. Lectr. in Physical C.

## Lectrs. :

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 Wood, C. E., M.Sc., A.I.C.  
 Nicholas, S. D., B.A. Ox., A.I.C.  
 Cooper, E. Ashley, D.Sc. Lond.,  
 A.R.C.S., F.I.C.  
 Pinkard, F. W., M.Sc. Wales., A.I.C.  
 Drew, H. D. K., Ph.D., D.Sc.  
 Lond., F.I.C.  
 Hirst, E. L., D.Sc., M.A., Ph.D.  
 Hickinbottom, W. J., M.Sc., Ph.D.,  
 A.I.C.  
 Cox, E. Gordon, B.Sc. Bristol  
 Asst. Lectr.

*Classics*

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 Aberd., B.A. Camb.  
 Prof. (Latin).  
 Dodds, E. R., B.A. Ox., M.A.  
 Prof. (Greek).  
 Hirst, Margaret E., M.A. Camb.  
 Lectr.

Barratt, A. J., M.A. Ox.  
 Lectr. (Latin).  
 Austin, R. P., B.A. Lond. Lectr.

*Commerce*, v. also Acc., Fin.

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 Ph.D. Columb. Prof.

*Commercial Law*

Tillyard, F., M.A. Ox., M.Com.,  
 Barr.-at-Law Prof.

*Dental Science*, v. *infra**Education*

Valentine, C. W., M.A., M.A.  
 Camb., D.Phil. St. And.  
 (supervisor of Students in  
*Psychol.* in Fac. of Sc.) Prof.

## Heads of Training Depts. :

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 Lond.  
 Hammond, Marjorie, M.A. Camb.,  
 B.A. Dub.

## Lectrs. :

Chapman, A. E., M.A. Camb.  
 Scott, Elizabeth, B.A. Belf.  
 Austin, Frances M., M.Sc. (in  
 Secondary Dept.)  
 Buchanan, Freda M., M.A. Edin.

Jebb, Eglantyne M., M.A. Ox.  
 Simpson, Lilian E., B.A.  
 Cull, E. C., B.Sc. Lond  
 MacGregor, Janet G., M.A., B.Ed.,  
 Ph.D. Edin. (*History* and  
 Methods of teaching H.).  
 Stewart, Dorothy W., Mus.Bac.  
 Edin. (also Lectr. in *Music*)  
 Haddelsey, Muriel E., Bergman  
 Osterberg Phy. Tg. Coll.  
 James, B. C. L., M.A. Ox.

## Asst. Lectrs. :

Dickinson, Olive W., M.Sc. Shef-  
 field.

Fisk, Ethel, B.A. (Camb.).  
 Tait, Elizabeth W., M.A. Edin.  
 Bayley, Christabel.

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Jordan, W. R., M.D.  
 Braid, Frances, M.D.

*Engineering, Civil*

Batho, C., D.Sc. McGill, M.Sc.,  
 B.Eng. Liv., A.M.I.C.E.

## Beale Prof.

Panton, R. C., M.Sc., M.A., B.A.I.  
 Dub., A.M.I.C.E. Lectr.  
 Veal, T. H. P., B.Sc., A.M.I.C.E.  
 Lectr.

Coultas, H. W., B.Sc. Leeds,  
 M.Sc., A.M.I.Mech.E. Lectr.  
 Haywood, W., F.R.I.B.A. (Town  
 Planning) Lectr.

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 Tech., M.I.E.E. Prof.  
 Kipps, E. J., M.Sc., M.I.E.E.  
 Lectr.

Harvey, G. M., M.Sc., B.Eng. Liv.,  
 A.M.I.E.E.

## Lectr. in Mining E.E.

Sims, L. G. A., M.Sc. Lectr.  
 Havekin, T., B.Sc. Manc.

## Asst. Lectr.

*Engineering, Mechanical*

Burstall, F. W., M.Sc., M.A. Camb.,  
 M.I.Mech.E. Chance Prof.  
 Porter, R. C., M.Sc. Vict.,  
 A.M.I.C.E. Lectr.

Boden, F. H., B.Sc. (Machine Design) Lectr.  
 Ellis, S. J., B.Sc., A.M.I.C.E. „  
 Sandifer, D. A. N., B.Sc. Eng. (Machine Design) Asst. Lectr.

### English

De Selincourt, E., M.A., D.Litt. Ox., F.B.A. Prof.  
 Maitland-Smith, Isabella J., M.A. Aberd., B.A. Ox. Lectr.  
 Hughes, A. D. M., M.A. Ox. Lectr.  
 Milner-Barry, Alda, M.A. Camb. Lectr.  
 Jebb, Eglantyne M., M.A. Ox. Lectr.  
 Buchanan, Freda M., M.A. Edin. Lectr.  
 Waterhouse, J. F., B.A. Ox. Asst. Lectr.  
 Dodds, Mrs. A. E., M.A. Ox. Asst. Lectr.

### Finance

Smith, J. G., M.A. Dub., M.Com. Birm. and Dub. Mitsui Prof.  
 Marquand, H. A., M.A. (Wales) Lectr. in Economics.  
 Court, W. H. B., B.A. Camb., M.A. Harv. Lectr. in Econ. Hist.

### French

Ritchie, R. L. Graeme, M.A., D.Litt. Aberd., D. de l'U. Paris, O.A. Prof.  
 Milne, Jane J., M.A. Edin., D.Litt. Lectr.  
 Wilson, Claudine I., M.A. Aberd., Ph.D. Lond. Lectr.  
 Bisson, L. A., M.A. Ox. Asst. Lectr.  
 Tait, Elizabeth W., M.A. Edin. Asst. Lectr.  
 Rimey, J., L. ès L. Nancy Asst. in Colloq. French.

### Geography, v. also Educn.

Kinvig, R. H., M.A. Liv. Reader.  
 Fisk, Ethel, B.A. Camb. Asst. Lectr.  
 Pelham, R. A., B.A. Wales Asst. Lectr.

### Geology and Mineralogy

Boulton, W. S., D.Sc. Wales, M.Sc., A.R.C.S., M.I.Min.E., F.G.S. Prof.  
 Raw, F., D.Sc. Lond., F.G.S. Lectr.  
 Wills, L. J., Ph.D., Sc.D., M.A. Camb., F.G.S. Lectr.  
 Shotton, F. W., B.A. Camb. Asst. Lectr.

### German

Sandbach, F. E., M.A. Camb., Ph.D. Strass. Prof.  
 Strachan, L. R. M., M.A. Ox. Lectr.  
 Liddell, M. F., Ph.D., M.A. Edin. Lectr.

### History, v. also Arch., Educn.

Beazley, C. R., D.Litt. Ox., M.A. Prof.

### Lectrs. :

Sutcliffe, Dorothy, M.A. Manc. and Leeds  
 Adams, H. P., M.A. Camb. (Ancient H.).  
 MacGregor, Janet G., M.A., B.Ed., Ph.D. Edin.  
 James, B. C. L., M.A. Ox.

### International History

Stephens, J. S., M.A. Camb. Merttens Lectr.  
 Italian [Serena Prof.  
 de Castelvechio, Linetta P., M.A.

### Law

Smalley-Baker, C. E., M.A. Ox., LL.B. (Harvard), Barr.-at-Law Barber Prof.  
 Potter, H., Ph.D., LL.B. Lond. Reader.  
 Coley, A. H., LL.D. Hon. Reader in Legal Ethics.  
 Camm, W. C. Lectr.  
 Dickson, A. W., LL.B., LL.B. Lond. Lectr.  
 Norris, C. S., B.A. Ox. Lectr. in Trust Accounts.

### Mathematics

Watson, G. N., Sc.D. Camb., D.Sc. Lond., F.R.S., F.R.A.S. Mason Prof.

## Lectrs. :

Preece, C. T., M.A. Camb.,  
F.R.A.S.

Colomb, Ruby, M.A. Lond.,  
F.R.A.S.

Calderwood, Nora I., M.A., B.Sc.  
Edin.

Lumsden, T. A., M.A., B.Sc. Edin.,  
F.R.A.S.

*Medicine, v. infra**Metallurgy* [Feeney Prof.]

Hanson, D., M.Sc., D.Sc. Liv.

Harris, H., M.Sc., F.C.S. Lectr.

Turner, T. H., M.Sc. Lectr.

Allen, N., M.Met. Asst. Lectr.

*Mining, Coal, and Metal*

Moss, K. N., O.B.E., M.Sc.,  
A.M.I.C.E., M.I.Min.E.,  
F.G.S. Prof.

Varvill, W. W., B.Sc. Durh.,  
M.I.M.M., M.I.M.E.

Lectr. in Metal M.

Garrett, J. G., B.Sc., M.I.Min.E.  
Lectr. in Surveying.

Hancock, W., Ph.D., M.Sc., F.G.S.  
Lectr. in Mine Rescue.

Needham, L. W., M.Sc.  
Asst. Lectr. in Coal Treatment.

*Mining Research Laboratory*

Haldane, J. S., C.H., LL.D., M.D.,  
F.R.S., Hon. Prof. and Dir.  
of Research Lab.

Graham, J. I., M.A. Camb., M.Sc.  
Lond., A.R.C.Sc.I., A.I.C.  
Asst. Dir. of Research.

*Music, v. also Educn.*

Bantock, G., M.A., D.Mus. Edin.  
R. Peyton Prof.

Stewart, Dorothy W., Mus. Bac.  
Edin. Lectr.

*Oil Engineering and Refining*

Nash, A. W., M.Sc., F.C.S.,  
M.I.Mech.E., M.I.P.T. Prof.

Timmins, L. P., B.Sc., M.I.P.T.,  
F.G.S. Lectr.

Bowen, A. R., M.Sc., Ph.D., A.I.C.  
Lectr.

Stanley, H. M., M.Sc.

Hon. Research Asst.

*Philosophy, Mental and Moral*

Russell, L. J., M.A., B.Sc., D.Phil.  
Glas. Prof.

Gibson, A. B., M.A. Ox. Lectr.

*Physics*

Smith, S. W. J., M.Sc., M.A.  
Camb., D.Sc. Lond., A.R.C.S.,  
F.R.S. Poynting Prof.

## Lectrs. :

Shakespear, G. A., D.Sc., M.A.  
Camb., B.A., B.Sc. Lond. (Spl.  
Lectr. in Expl. P.)

Barlow, G., D.Sc. Birm., Wales,  
and Lond., F.Inst.P.

Keene, H. B., D.Sc., F.Inst.P.

Ibbs, T. L., Ph.D., M.Sc.

Young, J., B.Sc. Lond., A.R.C.S.

Dee, A. A., B.Sc. Lond., D.I.C.,  
A.R.C.S.

Johnson, M. C., M.A. Camb., M.Sc.

*Physiology*

Daly, I. de Burgh, M.A., M.D.,  
B.Ch. Prof.

Walker, Hilda, M.B., Ch.B.  
Special Lectr.

Thorpe, W. V., M.A., Ph.D.  
Lectr. in Biochemistry.

Macgregor, R. G., B.A., B.M.,  
Ch.B. Lectr.

Peat, S., Ph.D., B.Sc.  
Asst. Lectr. in Biochemistry.

*Psychology, v. Educn.**Russian*

Konovaloff, S., B.Litt. Ox. Prof.

*Spanish*

Conroy, R., M.A. N.U.I. Lectr.

*Zoology and Comp. Anatomy*

Fox, H. Munro, M.Sc., M.A. Camb.  
Mason Prof.

Newth, H. G., M.Sc., A.R.C.S.,  
D.I.C., F.Z.S. Lectr.

Gunn, D. L., B.Sc. Asst. Lectr.

Stephenson, E. Mary, M.Sc. Lond.  
Asst. Lectr.

- \* **Medicine** (for subjects of first 2 yrs.—Anat., etc., v. *supra*).  
*Bacteriology*, v. Path.  
*Ear, Nose and Throat, Diseases of*  
 Woodman, E. M., M.S., F.R.C.S. Lectr.  
*Forensic M. & Toxicology*  
 Morrison, J. T. J., M.Sc., M.A., M.B., B.Chir. Camb., F.R.C.S. Prof.  
 Walker, C., M.D., B.Sc. Asst.  
*Hygiene and Public Health*, v. also Chem.  
 Robertson, Sir John, C.M.G., O.B.E., M.D., LL.D. Edin., B.Sc. Prof.  
 Lewis, C. J., M.D., D.Sc., F.R.C.P.E. Assoc. Prof.  
 Auden, G. A., M.D., M.A., Ph.D., D.P.H. Camb., F.R.C.P. (Hygiene) Lectr.  
*Infant Hygiene and Dis. of Children* [Prof.]  
 Parsons, L. G., M.D. Lond., F.R.C.P. (also Clin. Lectr.)  
*Materia Medica* [Lectr.]  
 Kneale, J. C., M.B., Ch.B., M.P.S.  
 Greenwood, F. R., M.D., B.S. Lond., M.R.C.S. Demr.  
**Medicine**  
 Wynn, W. H., M.D., M.Sc. Lond., F.R.C.P. Prof.  
 Ball, L., M.D., M.R.C.P. Prof.  
 Hardy, T. L., M.D., M.A., F.R.C.P. Lectr. for Dental Students.  
**Mental Diseases**  
 Hughes, P. T., M.B., Ch.M. Edin., D.P.H. Lond. Lectr.  
 Joint Board of Research (Univ. and City):  
 Pickworth, A. F., B.Sc., M.B., B.S., A.I.C. Director.  
*Midwifery and Dis. of Women*  
 Whitehouse, H. Beckwith, M.S. Lond., Ch.M., F.R.C.S. Prof.  
 Graham, Lewis, M.S. Lond., F.R.C.S. Lectr.
- Shufflebotham, Hilda N., B.Sc., M.B., Ch.B., F.R.C.S. Asst.  
*Ophthalmology*  
 Evans, J. J., M.D., F.R.C.S. Lectr.  
*Pathology and Bacteriology*  
 Wilson, G. H., M.D. Glas. Prof. of Path.  
 Lamb, F. W. M., M.D., Ch.B., M.R.C.S. Lectr. in P.  
 Lewis, C. J., M.D., D.Sc. Edin., F.R.C.P.E.  
 Lectr. in Advanced B.  
 Shrewsbury, J. F. D., M.B., Ch.B., D.P.H. Lectr. in B.  
 Donovan, Hugh, M.B., Ch.B., F.R.C.S. Asst.  
 Brenner, O., M.D., M.R.C.P. Asst.  
 Stammers, A. F., L.D.S. Demr. for Dental Students.  
*Pharmacology*, v. Therapeutics  
*Radiology* [Lectr.]  
 Black, Harold, M.D., M.R.C.P.  
*Surgery* [Prof.]  
 Gamgee, L. P., Ch.M., F.R.C.S.  
 Billington, W., M.S. Lond., Ch.M., F.R.C.S. Prof.  
 Raison, C. A., M.B., Ch.B., F.R.C.S. (S. for Dental Students) Lectr.  
 Goodwin, B. G., F.R.C.S. Asst.  
*Surgery, Operative*  
 Barnes, F., M.S., F.R.C.S. Lectr.  
*Surgery, Orthopaedic* [Lectr.]  
 Dunn, N., M.A., M.B., Ch.B.  
*Therapeutics, Pharmacology and*  
 Wilkinson, K. D., O.B.E., M.D., F.R.C.P. Prof.  
 Smellie, J. M., M.D. Edin., M.R.C.P. Lectr.  
**Dental Science**, v. also Med., Path., Surg.  
 Matthews, G. F. C., B.D.S., L.D.S. Lectr. (Orthod.).  
 Humphreys, H. F., M.B., Ch.B., M.D.S., L.D.S. Lectr. (D. Anat. and Physiol.).

\* Exclusive of 40 clinical lecturers and tutors on the staffs of hospitals.

Wellings, A. W., M.D.S., L.D.S.	10 Clinical lecturers and tutors on
Lectr. (D. Histol., etc.).	the staff of the Dental Hos-
Knott, W. M., L.D.S.	pital.
Lectr. (D. Prosthetics).	
Madin, W. T., B.D.S., L.D.S.	Huxley Lecturer
Lectr. (D. Surgery, etc.).	
Broderick, R. A., D.S.O., Ch.B.,	1929-30—Sir William B. Hardy,
M.B., M.D.S., L.D.S.	M.A., F.R.S.
Lectr. (D. Bacteriology).	
Parrott, A. H., O.B.E., M.D.S.,	University Extension
L.D.S.	
Lectr. (D. Mat. Med. and	Tutors: Vacant (Jt.-Secy.) and
Therap.).	12 others.

## AFFILIATED INSTITUTIONS

**MIDLAND INSTITUTE.** Students are admitted to Intermediate Arts examn. as Internal Students. *Principal*—A. Hayes, M.A. Ox., and Birm.

**SALTLEY TRAINING COLLEGE.** Students taking the 4-yr. course are admitted to the Intermediate Arts examn. as Internal students. *Principal*—Rev. F. T. Cooper, M.A. Camb.

**HANDSWORTH AND LICHFIELD THEOLOGICAL COLLEGES.** Students can take the 2nd and 3rd yrs. for the B.A. in their own Colls. *Principals*—Handsworth: W. F. Lofthouse, D.D.; Lichfield: L. A. Phillips, M.A. Ox.

## GENERAL INFORMATION

The University, formerly the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. The Faculties of Arts, Medicine, and Law are still housed in the buildings of Mason College in the centre of the city. Other buildings have been erected and equipped at a cost of £850,000 at Bournbrook on a site of 50 acres.

**FACULTIES:** Science, Arts, Medicine, Commerce, Law. Deans: Prof. S. W. J. Smith, Prof. de Selincourt, Prof. Brash, Prof. J. G. Smith, Prof. Smalley-Baker.

*Departments of Education* (training for teaching in primary, secondary, and continuation schools); Malting and Brewing and Biochemistry of Fermentation; Social Study; Industrial Certificates. Connected with the Medical Faculty is a *School of Dentistry*.

**LIBRARY,** about 150,000 vols. *Special Collections:* Sargant, rich in French economic literature of about 1830-1860; Collings, some 350 books on agric. and land problems; Bunce, rich in nineteenth-century biography; Corbett, county, especially Shropshire, history. **MUSEUMS,** Anat., Dent., Geol., Zool.

**LABORATORIES:** Chemical (special organic, phys., electro-chem., analytical, and public health depts.); Engin., Metallurgy, and Mining (exceptionally well equipped and including coal-mining research lab., expl. coal-mine and oil-boring plant, petroleum engineering being a speciality); Brewing; Power-station supplying whole Univ. with lighting, heat, and power; Cancer Research, Research in Mental Disease. A small **OBSERVATORY** is attached to the dept. of Physics. **HOSPITALS** (600 beds) available for clinics—General, Queen's, and many special.

MATRICULATION. See Appendix XX.

DEGREES. B.A., B.Mus., LL.B., M.A., M.Mus., D.Litt.; B.Sc. (in Pure Science, in Engineering—Civ., Elec., Hydro-Elec., Mech., or Oil, in Metallurgy, or in Mining—Coal and Metal), M.Sc., D.Sc.; M.B., Ch.B., B.Sc. (Pub. Health), B.D.S., M.D., Ch.M., M.D.S.; B.Com., M.Com.; Ph.D. (in any Faculty); LL.D. (Honorary).

No degree can be obtained without attendance upon prescribed courses in the Univ. extending over at least 3 academic yrs. after matricn. except in the case of graduates of other Univs., who are, under certain conditions, admitted to the 1 yr.'s courses for the M.A. and M.Sc. and to 2 yrs.' courses for the B.Sc. (courses in technical subjects), B.Com. (one year may in exceptional cases be taken elsewhere), Ph.D. (v. p. 18), M.D., or Ch.M.

B.A. Honours schools in Classics, French, German, Engl. Lit., Hist., Social and Polit. Sc., Philos., Maths., Music, Geography, Italian, Spanish, Economics.

In the B.Com. courses one-third of the student's time may, if he chooses, be devoted to work in Applied Science. There is a 4 yrs.' B.Com. course for students entering at Inter. B.Sc. standard. They "qualify" for the ordinary B.Sc. at the end of 2 yrs., subsequently completing 2 yrs. in the Fac. of Com.

The B.Sc. with Honours requires 3 yrs. after the Intermediate standard has been reached. B.Sc. Hons. schools in all subjects in the Fac. The B.Sc. courses in Engin. and Oil Mining cover 4 yrs. Those in Mining involve practical work underground. Graduates of Oxford who have obtained the Ox. Dipl. in Scientific Engin. and Mining are eligible, subject to certain provisos, for the B.Sc. in Engin., Mining, or Metall. after 2 yrs.' study in Birmingham.

Special course in Spanish for students of applied science; 2 lecture hours a week for 2 sessions.

Med. students may spend their final yr. at any school or schools of Med. recognized by the Univ., and the Senate may recognize examns. passed therein as exempting from the 1st Med. examn. They may obtain the B.Sc. as well as their Med. degree by devoting 6 yrs. after the pre-medical year instead of 5 to study in the Univ.

Candidates for the B.Mus. (Honours) must have passed the matricn. or an equivalent examn. and an examn. in the Rudiments of Music, and power of performance on some musical instrument.

The M.A., M.Com., and M.Sc. involve at least 1 yr. of study after completing the course for the bachelorship.

The M.A. may be taken in Educn. as well as in the ordinary Arts subjects.

The D.Litt., M.Mus., or D.Sc. may be taken 3 yrs. after the M.A., B.Mus., or M.Sc.

*Advanced Standing.* Candidates who pass at entrance certain examns. ordinarily taken after the first year of a degree course may take the final examn. for the B.A. at the end of their second year and the M.A. at the end of their third year. Certain examns. of other approved Univs. and Examining Bodies are accepted as qualifying for such advanced standing.

*Diplomas.* Art Instructor's (2 yrs.' course), for students of the Municipal School of Art; *Brewing* (3 yrs.' course), *Brewing Special* for graduates (1 yr.); *Graduates' Commerce* (1 yr.'s course), open to graduates of any Univ. who have passed an adequate test in accounting; *Mining*; *Social Study* (2 yrs.' or, Higher Dipl., 3 yrs.' course preparatory for public administration, charity organization, factory welfare, trade union official work, etc.); *Diploma in Education* (1 yr.'s course), for graduates of a Univ. of the U.K. or others equally qualified; *Dental Surgery* (4 yrs. subsequent to passing a recognized Pre-

Dental examn.); *Public Health* (1 yr.'s course), not less than 2 yrs. after obtaining registrable qualification in Med., Surg., and Midw.

A joint *Coal-mining* Diploma of the Univs. of Oxford and Birmingham may be taken by Oxford graduates in Engineering who, after 4 months' practical experience in coal-mining, pursue courses covering one session in this Univ. Tuition fee, £60. A similar Joint Diploma of Camb. and Birm. is given.

*Mining* students from *British Dominions*, not under 25 years of age, who have been regularly employed in mines for not less than 4 yrs., may take a special 2 yrs.' course (combined with practical experience) qualifying for the Univ.'s Mining Diploma.

*Certificates* for Brewers and Maltsters (2 yrs.).

An *Industrial Certificate* class has been instituted under the control of a joint board of Univ. and Trade Union representatives. This class provides two full days' instruction to members of Trade Unions, nominated by their Unions, in English Literature, Modern History, Economics, and Elementary Science. The class is held in all three terms of the Univ. session, and at the end an Industrial certificate is awarded after examn. The class is a new departure, as it is not based on the principle of evening work but on full-time day work, and the instruction is provided by members of the Univ. Staff. Evening classes are not provided by the Univ., this work being left to the Birm. and Midland Inst., Munic. Tech. Sch., etc.

**RESEARCH.** A joint standing committee of lay members of council and academic members of senate co-ordinates research work in all faculties, formulates policies of research, obtains funds, and co-operates with Gov. agencies and external bodies. Trust Funds (Spencer and Holcroft) amount to £10,000. There are special committees for research in Mental Diseases and in Cancer.

**FEES.** Matricn., £2. Tuition for B.A., £75; B.Sc., £75-£96; Engin., £190; Mining, £190; Metall., £190; Med., including Hospl. fees, £170; LL.B., £29. Examns., Interm. and Final, for first degree, £10, except in Med., £20, and Engin., £12: 10s. Laboratory research fees average about £20.

**POSTGRADUATE AND RESEARCH SCHOLARSHIPS.** 14 in Sci.; 9 in Arts; 2 in Com.; also a Travelling Studentship (£300 for 1 yr.) biennially for research in Path. or Clin. Med.; 1 postgrad. scholarship (£90) every 3rd yr. in Facs. of Med., Com., Law.

**RESIDENCE.** For women there is a Hall of Residence—Univ. House, Edgbaston Park Rd. (Warden), with grounds of 2½ acres; for 96 men students—Chancellor's Hall (Warden), Augustus Road, Edgbaston; for 80 men students, Queen's College (Warden), Somerset Road, Edgbaston. The cost of board and lodging is from £2: 2s. upwards a week.

AN APPOINTMENTS BOARD (Secy.—The Registrar) has been established.

**GUILD OF GRADUATES.** Six representatives serve on the Univ. Court of Governors, one of whom is also a member of the Univ. Council. A *Register of Graduates* and a *News Letter* are circulated annually to all members.

**UNIVERSITY EXTENSION** work includes Lectures and Tutorial Classes in the city and neighbouring towns.

**PUBLICATIONS.** *Calendar* (Oct.), 2s.; Sectional Prospectuses (April); *Careers in Science*; *Report of University Research Committee*, including list of research reports published during the session (Jan.); students' magazine, the *University Gazette*.

## THE YEAR 1928-29

**BENEFACTIONS AND GIFTS.** The main benefactions received have been anonymous donations (subject to certain conditions) £24,088; F. Baxter, £100; the late Alderman Clayton, £24,729 (partly for Scholarships); Lewis', Ltd., £100; the late Miss Jessie Osler (Balance of Bequest), £34,613; Baron Profumo (for Law School), £500; Lord Beaverbrook (for Medical Research), £1000; the late R. Fenwick (for Scholarships), £6000; the late J. Fletcher (Scholarships), £32,158; J. L. Norton Memorial Fund, £1175. Many smaller money gifts, presentations of apparatus, scientific equipment, books, etc.

**NEW BUILDINGS.** A new and unique Technol. Dept. for Mining Machinery in the Coal Mining Dept. has been completed, and was opened by Mr. Evan Williams on Nov. 13, 1929. The building of the new Students' Union is well in hand and may be completed in the session 1929-30. The extension of Queen's College Residential Hall for men, bringing the total number up to 50, was opened on Sept. 26, 1929.

**NEW POSTS.** New chair of Children's Diseases, L. Parsons, M.D., F.R.C.P. The Council brought into operation the first section of the Grading Scheme for the non-Professorial Staff by creating 9 posts in Grade I., equivalent to a Readership, *i.e.* with a salary of not less than £600 p.a. (Grades II. and III. under the scheme have been in operation since 1921). 6 of these Grade I. posts were assigned to the Faculty of Science, 3 to the Faculty of Arts, and, in addition, 2 semi-academic, semi-administrative posts were placed on the Grade I. scale of stipend (Head of Men's Division, Education Dept.; Director of Power Station and Chief Lectr., Mech. Engin.).

**NEW DEVELOPMENTS.** The Council accepted the principles of a Report by W. Haywood, F.R.I.B.A., Univ. Lectr. in Town-Planning, on the lay-out of the new additional site of 41 acres presented by the Calthorpe Estate to the University at Edgbaston. The main road to the north of the new site and the Central Avenue across it have been completed. The Council is proceeding with other important developments in the accepted scheme.

**NEW HOSPITAL.** The scheme for a new Teaching Hospital on a site adjoining the University land at Edgbaston, to which it is proposed to transfer the Medical School Depts. and labs., etc., has now been placed in the hands of 12 selected architects for competition. It is expected that the award will be made by the Architect-Assessor, P. Adams, F.R.I.B.A., early in 1930.

**EXTRA-MURAL WORK.** The Council has appointed a Director of Adult Education, W. J. MacAlpine, M.A. (Oxon), who will also act as joint sec. to the Joint Cttee. of the Univ. and W.E.A.

**VISITS OF TEACHERS.** The University was visited by Profs. E. Halévy (Paris) and Galland (Bordeaux) in accordance with the scheme arranged by the Provincial Universities and the *Office Nat. des Univ. françaises*.

**RETIREMENT AND DEATHS.** Retirement: Prof. D. Stanley (Pharmacology). Deaths: Prof. R. H. Yapp (Botany); Emeritus Prof. E. A. Sonnen-schein (Classics).

**STUDENTS.** Full-time: total, 1362, including 148 graduates. Part-time: total, 193, including 43 graduates.

**DEGREES.** B.A., 90; B.Sc., 104; M.B., Ch.B., 22; B.Com., 12; LL.B., 5; M.A., 17; M.Sc., 22; M.Com., 1; LL.M., 1; Ph.D., 12; D.Litt., 1; D.Sc., 2; M.D., 3; B.Mus., 1.

# UNIVERSITY OF BRISTOL

VISITOR—H.M. THE KING.

CHANCELLOR—The Rt. Hon. WINSTON S. CHURCHILL, C.H., M.P. (*ex officio* President of Court, Council, and Convocation).

PRO-CHANCELLORS—Rt. Hon. HENRY HOBHOUSE, M.A., LL.D.; The Rt. Rev. the LORD BISHOP OF BRISTOL, D.D., LL.D.; STANLEY H. BADOCK, LL.D.; HIATT C. BAKER.

VICE-CHANCELLOR—THOMAS LOVEDAY, M.A. Ox., LL.D.

PRO-VICE-CHANCELLOR—Prof. F. FRANCIS, D.Sc., Ph.D., F.I.C.

TREASURER—STANLEY H. BADOCK, LL.D.

DEANS OF FACULTIES. See under "General Information"—Faculties.

LIBRARIAN—W. L. COOPER, M.A. Ox.

HON. MEDICAL LIBRARIAN—W. A. SMITH, M.A., M.B., M.R.C.S.

TUTOR TO THE WOMEN STUDENTS AND WARDEN OF THE UNIV. HALL OF RESIDENCE FOR WOMEN—MAY C. STAVELEY, M.A.

DIRECTOR OF SCHOOL CERTIFICATES—Prof. F. F. BOILLOT, M.A.

DIRECTOR OF EXTRA-MURAL STUDIES—J. H. NICHOLSON, M.A.

REGISTRAR—E. G. FRANCIS, M.A. Camb.

CHIEF ACCOUNTANT—I. FOX.

SECRETARY—WINIFRED SHAPLAND.

## ASSOCIATED INSTITUTIONS

(In which specialized teaching is given or facilities for research are afforded.)

ROYAL AGRICULTURAL COLLEGE, CIRENCESTER, founded 1845 and associated with the Univ. from 1910, was closed during the war, but was reopened in 1923. *Principal*—Prof. J. A. Hanley, A.R.C.S., Ph.D.

NATIONAL FRUIT AND CIDER INSTITUTE, LONG ASHTON (v. *infra*, LABORATORIES). *Director*—Prof. B. T. P. Barker, M.A.

REDLAND HIGH SCHOOL, COLSTON'S GIRLS' SCHOOL, and CLIFTON HIGH SCHOOL, BRISTOL, for kindergarten training.

GLOUCESTERSHIRE TRAINING COLLEGE OF DOMESTIC SCIENCE, for practical course for B.Sc. in Dom. Sc.

### *Theological—*

BRISTOL BAPTIST COLLEGE. *Principal*—A. Dakin, B.D. Lond., D.Th. Heid.

WESTERN COLLEGE, BRISTOL. *Principal*—R. S. Franks, M.A., D.Litt., LL.D.

THEOLOGICAL COLLEGE, SALISBURY. *Principal*—C. T. Dimont, M.A., D.D.

ST. BONIFACE MISSIONARY COLLEGE, WARMINSTER. *Principal*—E. C. Courtenay West, M.A.

## PROFESSORS, LECTURERS, ETC.

*Agriculture*

- Hanley, J. A., A.R.C.S., Ph.D. Munich Prof.  
 Barker, B. T. P., M.A. Camb. (A. Biology) Prof.  
 Wallace, T., M.Sc. Durh., A.I.C. (A. Chem.) Lectr.  
 Grove, O. (Enology), M.Sc. Lectr.  
 Walton, C. L., M.Sc., Ph.D. Wales (Entomology) Lectr.  
 Spinks, G. T., M.A. Camb. (A. Botany) Lectr.  
 Tutin, F. (Bio-Chem.), M.Sc. „  
 Maynard, J. G., M.A. Camb. (Pomology) Lectr.  
 Hutchinson, H. P., B.Sc. (Willow-growing) Lectr.  
 Dawe, C. V., M.Com. Leeds (A. Economics) Lectr.  
 Staniland, L. N., A.R.C.Sc. (Entomology) Lectr.  
 Ogilvie, L., M.A. Aberd., M.Sc. Camb. (Mycology) Lectr.  
 Marsh, R. W., B.A. Camb. (Mycology) Asst. Lectr.  
 Ling, A. W., M.Sc., N.D.A. (A. Chem.) Lectr.  
 Swarbrick, T., M.Sc., Ph.D. (Plant Physiology) Asst. Lectr.  
 MacEacharn, C. A., B.Sc. Durh. (Dairy Bacteriology) Asst. Lectr.  
 Charley, V. L. S., B.Sc. (Bio-Chemistry) Asst. Lectr.  
 Jones, J. O., M.Sc. Wales (Soil Analysis) Asst. Lectr.  
 Hinton, J. C., Ph.D. (Plant Physiology) Asst. Lectr.  
 At Campden Fruit and Veg. Preserving Station :  
 Hirst, F., M.Sc., A.R.C.S. Lectr. (Micro-Biology).  
 Adam, W. B., M.A. Cantab. (Agric. Chemistry) Asst. Lectr.  
 Adams, Miss M. Demr.  
 Brown, P. S. (R.).

- Channon, G. W. (R.).  
 Duncan, A. C., F.R.C.V.S. (R.).  
 Edwards, S. W. (R.).  
 Le Sueur, A. D. C., F.S.I. (Dip. For.) (R.).  
 Thomas, J. F. H., B.Sc. Lond. (R.).  
 Wells, H. E. (R.).

*Anatomy*

- Fawcett, E., M.D., C.M. Edin., F.R.S. Prof.  
 Stock, W. S. V., M.B., B.S. Lond., F.R.C.S. Demr.  
 Llewelyn, Miss G. R., M.Sc. Demr.  
 Adams, A. W., M.B., M.S. Lond., F.R.C.S. Demr.  
 Moore, C. A., M.S., M.B. Lond., Ch.M., F.R.C.S. (Surg. and Applied Anat.) Lectr.

*Anthropology*

- ..... Lectr.

*Arabic, Aramaic, etc., v. Orient.**Art*

- Wilenski, R. H. (S.).

*Bio-Chemistry, v. also Agric.*

- Nierenstein, M., Ph.D. Berne, D.Sc. Gén. Lectr.

*Botany, v. also Agric.*

- Darbishire, O. V., B.A. Ox., Ph.D. Kiel Prof.  
 MacGregor Skene, D.Sc. Aberd. Lectr.  
 Bracher, Miss R., M.Sc., Ph.D. Asst. Lectr.  
 Cook, W. R. I., Ph.D. Asst. Lectr.  
 White, J. W., M.Sc. (Systematic B.) (S.).  
 Gardiner, G. F., F.R.H.S. (Gardening) (R.).

*Chemistry, v. also Agric.*

- Francis, F., D.Sc. Manc., Ph.D. Erl., F.I.C. A. C. Pass Prof.

(R.)=Recognized teacher. (S.)=Special Lectr.

- Travers, M. W., D.Sc. Lond., F.R.S.      Nicholson, J. H., B.A. Ox., M.A. Lectr.  
     Research Fellow in Applied Physical Chemistry and Hon. Prof.  
 Davis, O. C. M., D.Sc. Lond., D.Sc., M.D., Ch.B., F.I.C. (also Lectr. in Med. to *Dental Students* and in For. Med. and Toxicol.)\* Lectr.  
 Rixon, F. W., M.Sc. Manc., Ph.D.      Gies., M.A., F.I.C. Lectr.  
 Taylor, Millicent, D.Sc., F.I.C. Lectr.  
 Menzies, R. C., Ph.D. St. And., F.I.C. Lectr.  
 Malkin, T., Ph.D.      .....  
 King, Annie M., Ph.D.      Research Asst.  
     *Chemistry, Applied*, v. p. 36.  
     *Chemistry, Hygienic* [Lectr. Russell, E., B.Sc. Lond., F.I.C.  
     *Chemistry, Physical*  
 Garner, W. E., M.A. Lond., D.Sc. Birm.      Leverhulme Prof.  
     *Domestic Science*  
 Whitaker, Ruth      Lectr.  
     *Classics* [H. O. Wills Prof.  
 Dobson, J. F., M.A. Camb. (Greek) ..... Prof.  
 Pitman, H., M.A. Ox.      Lectr.  
 Cuttle, W. L., M.A. Camb.      Asst. Lectr.  
     *Commerce*, v. *Engineering*  
     *Dental Science*, v. *infra*  
     *Economics*  
 Whyte, W. H., M.A. Leeds Lectr.\*  
 Burrows, H. B., B.Com. Leeds Lectr.  
     *Education*  
 Wodehouse, Helen M., M.A., D.Phil. Birm.      Prof.  
 Foster, T. S., M.A. Ox., Master of Method      Reader.\*  
 Childs, E. C., M.A., B.D. Lond.      Lectr.  
     Nicholson, J. H., B.A. Ox., M.A. Lectr.  
     Cott, H. B., B.A. Camb., F.Z.S. Lectr.  
     Whitwill, Gladys C., N.F.U. Lectr.  
     Pilley, J. G., B.A. Ox. Lectr.  
     Stone, Thora G., M.A. Lectr.  
     Warrell, A., F.R.C.O.      Lectr. (*Music*).  
     Asst. Lectrs. (v. also Local Gov.):  
     Morice, Enid G.      Lectr.  
     Pye, Margaret W., B.A., Ph.D. Lond.      Lectr.  
     Walker, Mrs. Cyril      (Hygiene) (R.).  
     Byrne, Miss J. W. (Kindergarten).  
     Gothorp, Miss M. (Kindergarten).  
     Skinner, F.      Drawing (R.).  
     Elliott, Miss M. K. (Kindergarten).  
     Fawcett, Mary N.      Phys. Exerc. (R.).  
     *Engineering*, v. p. 36.  
     *English* [Winterstoke Prof.  
     Crofts, J. E. V., B.A., B.Litt. Ox.  
     Haworth, P., M.A. Manc., B.Litt. Ox., Ph.D. Innsb.      Lectr.  
     Birkhead, Edith, M.A. Liv.      Lectr.  
     Needham, H. A., M.A. Birm., Doct. de l'Univ. de Paris      Lectr.  
     *French*, v. also p. 37. [Prof.  
     Boillot, F. F., M.A. Shef., L. ès L.  
     Perkins, B. N., M.A. Camb.      Lectr.  
     Warne, F. J., B.A. Lond.      Asst. Lectr.  
     *Geography* [Reader.\*  
     Jervis, W. W., M.Sc. Durh., F.G.S.  
     Kendall, O. D., M.A. Camb.      Lectr.  
     Jones, S. J., M.A.      Asst. Lectr.  
     *Geology*  
     Reynolds, S. H., M.A., Sc.D. Camb.      C. Wills Prof.  
     Turner, H. W., M.A. Ox., F.G.S.      Lectr.  
     Smith, S., M.A. Camb., D.Sc. Durh.      Lectr.  
     Wallis, F. S., Ph.D.      Asst. Lectr.

(R.) = Recognized teacher.

\* Head of Dept.

- German* [Reader.  
Boyd, J., M.A., B.Litt. Ox.
- Hebrew*, v. Orient. Langs.
- History*  
Mowat, R. B., M.A. Ox. Prof.  
Staveley, May C., M.A. Dub.,  
M.A. Lectr.  
MacInnes, C. M., M.A. Ox. Lectr.  
Gough, J. W., M.A. Ox. Lectr.  
Box, A. Pelham, M.A., Ph.D.  
Asst. Lectr.
- Italian*  
..... Lectr.\*
- Law* [Reader.\*  
Lewis, M. M., M.A., LL.B. Camb.  
Veale, E. W. W., LL.M. Lond.  
Asst. Lectr.  
Wilshire, A. M., M.A. Ox., LL.B.  
Lond. Lectr. (Comm. L.).  
Bain, K., LL.B. Asst. Lectr.
- Mathematics*  
Hassé, H. R., M.A. Camb., D.Sc.  
Manc. H. O. Wills Prof.  
Todd, H., B.A. Camb. Lectr.  
Vint, J., M.A. Belf. Lectr.  
Fraser, P., M.A. Camb., B.Sc.  
Aberd. Reader (Geometry).  
Hodge, W. V. D., M.A. Edin.  
Lectr.
- Maths., Applied*  
Boulton, E. S., M.A. Camb., B.Sc.  
Lond. Prof.
- Medicine*, v. *infra*
- Military Subjects*  
Stuart, Capt. R. S. D. (S.).
- Mining*, v. Engin.
- Music*, v. Educn.
- Oriental Languages*  
O'Leary, De L., M.A., D.D. Dub.  
(Aramaic and Syriac) (S.).  
Polack, J., B.A. Lond. (S.).
- Philosophy*, v. also Educn.  
Field, G. C., M.A. Ox. Prof.  
Carré, M. H., M.A. Ox. Lectr.
- Physics*, v. also Chem., Math.  
Tyndall, A. M., D.Sc. Lond., D.Sc.  
H. O. Wills Prof.  
Lennard-Jones, J. E., D.Sc. Manc.,  
Ph.D. Camb. (*Theoretical  
Physics*) Prof.  
Skinner, H. W. B., M.A., Ph.D.  
Camb.  
H. H. Wills Research Fellow.  
Jackson, L. C., M.Sc. Lond., Ph.D.  
Leiden  
H. H. Wills Research Fellow.  
Williams, Iltyd, M.Sc. Wales  
Lectr.  
Piper, S. H., D.S.O., B.Sc., F.I.P.  
Lond. Lectr.  
Sucksmith, W., B.Sc. Leeds Lectr.  
Potter, H. H., Ph.D. Lond., B.Sc.  
Lectr.  
Bennett, M. G., M.Sc.  
Research Asst.  
Dent, Beryl M., M.Sc.  
Research Asst.  
Powell, C. F., B.A. Research Asst.
- Physiology*  
..... Prof.  
Hickman, H. R. B., M.A., M.B.,  
B.Ch. Ox. Lectr.  
Wiltshire, Marion O. P., M.Sc.  
Lectr.
- Social Work*  
Orpen, A. Kathleen (R.).
- Technology*, v. *infra*
- Theological Subjects*  
Dakin, A., B.D. Lond., D.Th. Heid.  
Robinson, F. E., B.A., B.D. Lond.,  
M.A.  
Franks, R. S., M.A. Camb.,  
D.Litt. Ox., LL.D.  
Dimont, C. T., D.D. Ox., M.A.  
West, E. C. C., M.A. Ox.  
Bellars, A. R., M.A. Camb. and  
Bris.  
Hawes, A. J. G., B.D. Lond.  
Clayton, J. F., M.A. Ox.  
Richardson, A. T., M.A. Ox.  
Prideaux, S. P. T., D.D. Ox.

Hall, J. G., B.A.  
 Clarke, C. P. S., M.A. Ox.  
 Donaldson, E. A. L., M.A. Camb.

*Zoology* [Reader.  
 Henderson, W. D., M.A., B.Sc.  
 Aberd., Ph.D. Freib.i/B.  
 Kearns, H. G. H., B.Sc. Lond.  
 Asst. Lectr.  
 Wynne-Edwards, V. C., B.A.  
 Asst. Lectr.

Medicine (for subjects of first 2  
 yrs.—Anat., etc., v. *supra*)

*Anæsthetics*  
 Corfield, C., M.D. Durh. (C.).  
 Cooper, R., M.R.C.S., L.R.C.P.,  
 (R.).  
 Stock, W. S. V., M.B., B.S. Lond.,  
 F.R.C.S. (v. also Anat.)\* (C.).

Tutors :  
 Logan, H. B., M.R.C.S., L.R.C.P.  
 Moore, L. A., M.B., Ch.B.  
 Bradbeer, E. G., M.B., Ch.B. (R. .

*Bacteriology*, v. Pathology

*Diseases of the Skin*  
 Wills, W. K., O.B.E., M.A., M.B.,  
 B.Chir. Camb. (C.).  
 Kingston, S. H., M.B., Ch.B.,  
 D.P.H. (C.).

*Fevers*  
 Peters, B. A., M.D., B.Ch., D.P.H.  
 Camb. (C.).

*Forensic Med., etc.*, v. Chem.

*Laryng., Rhin., and Otology*  
 Watson-Williams, E., M.B., B.Ch.  
 Camb., Ch.M. (C.).  
 Wright, A. J. M., M.B., B.S. Lond.,  
 M.B., Ch.B., F.R.C.S.  
 (C.) Lectr.\*  
 Scarfe, G., M.B., Ch.B. Edin. (C.).  
 James, J. A., M.D., B.S. Lond.,  
 F.R.C.S. (C.).  
 Harris, H. E., B.A., M.B., Ch.B.  
 Camb. (R.).

*Medicine*, v. also Path., Pharm.  
 Nixon, J. A., C.M.G., B.A., M.D.,  
 B.Chir. Camb., F.R.C.P.

Clinical Dean and Prof.  
 Coombs, C. F., M.D., B.S. Lond.,  
 F.R.C.P. Clinical Dean (C.).  
 Charles, J. R., M.A., M.D. Camb.,  
 F.R.C.P. (C.).  
 Clarke, R. C., O.B.E., M.B., Ch.B.  
 (C.).  
 Birrell, J. A., M.D., B.S. (C.).

Jr. Tutor.  
 Herapath, C. E. K., M.D., B.S.  
 Lond. (C.).  
 Carleton, H. H., M.A., M.D., B.Ch.  
 Ox. Sr. Tutor (C.).  
 Todd, A. T., O.B.E., M.B., Ch.B.  
 Edin. (C.).  
 Perry, C. B., M.D., Ch.B. (R.).  
 Trist, J. R. R., M.R.C.S., L.R.C.P.  
 Jr. Tutor (R.).  
 Sutton, G. E. F., M.B., B.S. Lond.  
 Tutor (R.).

*Medicine (Dental Students)*  
 Davis, O. C. M. (v. Chem.) Lectr.

*Mental Diseases* [(C.).  
 White, E. B. C., M.R.C.S., L.R.C.P.

*Obstetrics* [Prof. (C.).†  
 Rayner, D. C., F.R.C.S.  
 Statham, R. S. S., O.B.E., M.D.,  
 Ch.M. Demr. (C.).  
 Smythe, H. J. D., M.S. Lond.,  
 F.R.C.S. (C.).  
 Baker, Lily, M.D., B.Ch. Lond.,  
 B.A.O., F.R.C.S.I. (C.).  
 Shepherd, H. L., Ch.M.  
 (C.) and (R.).

*Ophthalmology*  
 Walker, C. H., B.A., M.B. Camb.,  
 F.R.C.S. (C.) Lectr.\*  
 Cross, F. R., M.B. Lond., LL.D.,  
 F.R.C.S. Reader.  
 Iles, A. E., M.B., B.S. Lond.,  
 F.R.C.S. (C.).  
 Chambers, E. R., F.R.C.S.E.,  
 D.O.M.S. (C.).

(C.)=Clinical Lectr. (R.)=Recognized teacher. \* Head of Dept.

† Director of Clinical Studies.

- Garden, R. R., M.A., M.B., Ch.B. Jackman, W. A., M.B., Ch.B.  
 Aberd., D.P.H. (R.). Lectr. to *Dental Students* (C.).  
*Pathology*, v. also Pub. Health Tutor.  
 Hall, I. W., M.D., Ch.B. Manc. Kemm, N. ff., M.B., B.S. Lond.,  
 Prof. F.R.C.S. Edin. (R.).  
*Path. and Bacteriology* Gorham, A. P., M.B., Ch.B.  
 Fraser, A. D., M.A., B.Sc., M.B., (R.) and Tutor.  
 Ch.B. Glas., D.P.H. Demr.  
 Taylor, A. L., M.D. Leeds. Demr.  
 Magee, V., M.B., B.Ch. Belf.,  
 B.A.O., D.P.H. Demr.  
*Pharmacology and Therap.*  
 Neild, Newman, M.B., Ch.B. Vict. (also (C.) in Med.) Lectr.\*  
*Pharmacy (Practical)*  
 Taylor, A. L., M.P.S. (R.).  
 Hetherington, W., Ph.C. (R.).  
*Physio-Therapy* [(R.).  
 Christofferson, P. E., M.B., Ch.B. Demr. & (C.).  
*Public Health* Kettlewell, N. H., L.D.S. Tutor.  
 Askins, R. A., M.D. Dub., D.P.H. Rigg, S. K., L.D.S. Tutor.  
 Camb. Lectr.\* Fawn, G. F., B.D.S. Tutor.  
 Parry, R. H., M.B., B.S. Lond., Lennox, W. J., B.D.S. Tutor.  
 D.P.H. Demr. Tratman, E. K., B.D.S. Tutor.
- Dental Science**
- Dental Mechanics*  
 Wing, J. C., L.D.S. Lectr.\*
- Dental Surgery*, v. also Chem. and Surg.  
 Claremont, L. E., L.D.S., M.R.C.S., L.R.C.P. (C.) Lectr.\*  
 Nichols, F. C., M.B., Ch.B., L.D.S. (also in D. Anat.)  
 Demr. & (C.).
- Engineering**  
 (In the Technical College of the Society of Merchant Venturers)  
*Applied Chemistry* [Lectr.  
 Andrews, W. A., B.Sc. Birm., A.I.C.  
*Automobile Engineering*  
 Morgan, W., B.Sc., M.I.A.E. Prof.  
*Civil Engineering*  
 Pippard, A. J. S., D.Sc. Prof.  
 Francis, W. E., B.Sc. Wales Lectr.  
*Drawing*  
 Baker, J. W. Instr.  
 Mountney, C. F., A.M.I.Mech.E. Instr.  
*Engineering Comm. Subjects*  
 Griffin, A. Lectr.  
*Electrical Engineering*  
 Robertson, D., D.Sc. Glas.,  
 M.I.E.E. Prof.  
 Holmes, S. Lectr.

(C.)=Clinical Lectr. (R.)=Recognized teacher. Head of Dept.

† Director of Clinical Studies.

*Mechanical and Mining Engineering*

Robertson, A., D.Sc. Edin. Prof.  
 Watson, F. R. B., B.Sc. Edin.  
     Lectr. (Mech. E.).  
 Morrison, J. L. M., B.Sc.  
     Asst. Lectr. (Mech. E.).  
 Newport, A. J., B.Sc.  
     Research Asst. (Mech. E.).

*French and German for Engin. Students* [Asst. Lectr.]

Bennett, Edith, M.A. Birm.

## University Extension

Director of Extra-mural studies  
 —Nicholson, J. H., M.A. (v. Educn.).

Extra-mural Lecturers: 41 members of the staff, including 17 for Tutorial Classes and 2 for Preparatory Classes.

Resident Tutor—Gloucester  
 W. E. Salt, M.A. Sheff., B.Com. Manc.

Resident Tutors—Somerset  
 S. H. Cair, B.Sc. Lond.  
 S. B. Dalston, B.A. Camb.

## GENERAL INFORMATION

University College, Bristol, founded in 1876, was dissolved in 1909 on the incorporation by Royal Charter of the Univ. of Bristol. The main buildings, including a large extension recently opened which cost £500,000, a new building for the accommodation of the Physics department (cost £200,000), and other projected additions, when complete, will cover a site of 16 acres near the centre of the city on high ground adjoining residential districts. The Municipal Museum and Art Gallery adjoin.

The TECHNICAL COLLEGE OF THE SOCIETY OF MERCHANT VENTURERS provides accommodation for and maintains the Faculty of Engineering of the University. Dean of the Faculty—Prof. Andrew Robertson, D.Sc.

LIBRARIES, 78,000 vols. LABORATORIES: Scientific, Medical, and Engineering, all equipped for purposes of research. Agri-Horticultural station at Long Ashton with Expl. fruit plantations 268 acres devoted to research in fruit-culture, cider-making, plant diseases and their treatment, etc. Fruit and vegetable preservation research station at Campden, Glos., controlled by the Univ. on behalf of the Ministry of Agr., for instruction and experimentation on a semi-commercial scale. Hospitals available for clinical study, 2 General (648 beds), Children and Women (100), Eye (40), in all 788 beds.

FACULTIES. Arts, Science, Medicine, Engineering. Deans: Prof. Field (Philosophy), Prof. Hassé (Mathematics), Prof. Fawcett (Anatomy), Prof. A. Robertson (Mech. and Mining Eng.).

*Special Departments.* Education (places for 180 men and 180 women students); Agriculture and Horticulture; Pathological Laboratory (for investigation of epidemic and other outbreaks, examination of waters and foods).

MATRICULATION. In common with all other English Univs., Bristol holds School and Higher School Certificate Examns., at which candidates may qualify for matriculation. It holds no separate matriculation examn. See also Appendix XX.

DEGREE COURSES. B.A., B.Sc., B.Sc. in Agriculture, B.Sc. in Engineering—3 yrs., including at least 2 in the Univ.; Honours in Arts and Pure Science—4 yrs., except for those who enter with Higher School Certif.; B.Sc. in Domestic Science—4 yrs.; by research in case of a graduate of another Univ.—2 yrs.; "Sandwich" Scheme of Training for Engineers, including

30 mos. in works—5 yrs.; M.B., Ch.B.—5 yrs., after passing a Prelim. Science examn. in Chem. and Physics; B.D.S.—5 yrs., including at least 3 in the Univ.

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ. by the Principal or teachers mentioned above is, for the purpose of the B.A. degree, deemed to be given in and by the Univ.

*Post-graduation medical studies* are under the direction of the Prof. of Pathology, who arranges for weekly afternoon demonstrations and discussions in April and May. Fee for the course, 1 guinea.

**HIGHER DEGREES.** M.A., D.Litt.; M.Sc., D.Sc. (in Pure Sc. or Engineering); Ch.M., M.D.; Ph.D. (see p. 17). Graduates of other Univs. are placed practically on the same footing as graduates of Bristol as far as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M.Sc. one yr. later. Otherwise the Mastership is not granted within 2 yrs. after graduating. The M.D. may be taken 2 yrs. after graduating in Med., the D.Litt. 4 yrs. after the M.A., and the D.Sc. 4 yrs. (3, if devoted to original work in the Univ.) after the M.Sc.

**DIPLOMAS.** Education (post-graduate) 1 yr., L.D.S. 4 yrs., D.P.H. (for fully registered medical practitioners of 2 yrs.' standing), 9 months, D.V.S.M. (for M.R.C.V.S. of 1 yr.'s standing), Engineering 3 yrs.

**CERTIFICATES.** Testamur in Educn., 1 yr.; Continuation School Teachers' Certif., 1 yr.; Testamur in Social Study, 2 or (Higher Testamur) 3 yrs.; Testamur in Biology, 1 yr.; Engineering Apprentices, 2 yrs.

**FEES.** Matricn., 3 gs.; Registration, £1:10s.; Tuition, annual, B.A., 24 gs., Theol. Students (1st year only), 20 gs.; B.Sc., 30 gs.; B.Sc. in Engin., 40 gs. (Lab. practice alone, 4 gs. per term for one day a week); M.B., Ch.B., entire curriculum, 205 gs.; B.D.S., including mech. lab. and hospl. practice, 215 gs.; Testamur in Social Study, 2 yrs., 27 gs.; Degree examns. (including Graduation), B.A. or B.Sc., 9½ gs.; M.D., 24 gs.; M.D.S., 24 gs.; M.A. and M.Sc., 9½ gs.; Ph.D., 13 gs. Univ. Union, £3:3s. per annum.

**RESEARCH.** The Colston Research Society devotes annually about £400 to the promotion of Research in the Univ. It offers, preferably to Bristol graduates, fellowships of £150 each, the money being provided by donors, who are allowed to determine the subject of the research and, subject to the approval of the Board of the Faculty, to nominate the holder. The donor has a right of access to the research work and to receive the result of it 12 months prior to publication.

**SCHOLARSHIPS FOR GRADUATES.** £160 for research in Engin.; £40 and £31 (women only), £46 (men only), for post-graduate course; £52 for Chemical Metall. research; £7 for study in English Lit.; studentship in Mod. Langs., £80.

**RESIDENCE.** Mortimer House and Wills Hall for men—from £75 and £67:10s. p.a.; Clifton Hill House and 3 other residences for women students—from 60 gs. p.a.

**APPOINTMENTS BOARD.** Secy., T. A. Leach, M.A.

For FORMER STUDENTS there is an Association of Alumni.

**UNIVERSITY EXTENSION.** A Joint Board was formed in 1922 consisting of representatives of the Univ. of Bristol, the Univ. College of the South-west of England, Exeter, and the Univ. College of Southampton. Secy.—J. H. Nicholson, M.A., Director of Extra-mural Studies, The University, Bristol.

*Co-operation with Rural Community Councils.* The Univ. appoints 3

representatives to the R.C.C. of Gloucestershire and Somerset respectively. The Director of Extra-mural Studies in the Univ. is Chairman of the Gloucestershire R.C.C., and Chairman of the Education Committee of each of the two Councils. The Gloucestershire Finance and G.P. Committee of the R.C.C. and Somerset contribute to the salary of whole-time tutors for Adult Education, appointed by the Univ. for those Counties.

**PUBLICATIONS.** *Calendar*; Faculty prospectuses issued in June; annual report of Council; Pamphlets on Extension Lectures (with list of lectures on the Bristol, Southampton, and Exeter panels), Public Lectures, Halls of Residence, Regns. for Matricn. and for School Certif. Exams. (*Examn. Papers*, rs. 3d. per set post free); Students' Mag. *Nonesuch*, rs.

## THE YEAR 1928-29

**CHANCELLOR.** The Rt. Hon. Winston S. Churchill, C.H., M.P., has been elected Chancellor of the University in succession to the late Rt. Hon. The Viscount Haldane of Cloan, K.P., O.M.

**BENEFACTIONS.** From the Chairman of Council (Dr. S. H. Badock) an Entrance Scholarship to be known as the "Miriam Badock Scholarship" (value £120 per ann.), tenable by a student proceeding from Clifton College; from Miss Marian Clarke, £500 for a "Marian Clarke Scholarship," tenable by a candidate for hon. in English Hist. or Mod. Langs.; from Lord Beaverbrook (through the late Prime Minister), £1000 for some object within the purview or control of the Med. Fac., used for a "Beaverbrook Research Fellowship" primarily in Clinical subjects; from the Alice Gardner Memorial Fund, £50 for books for the Library; from the late Mrs. Anne Ellen Jarrett, £100.

**NEW BUILDINGS.** The new Hall of Residence for men, "Wills Hall," was formally opened by the Chancellor on Dec. 14. Warden—H. N. Matthews, M.A. Camb. The chapel is still in course of erection. Good progress is being made with the new Hall of Residence for women.

**NEW POSTS.** Resident Tutorship in Street, Somerset—Stephen B. Dalston, B.A.; Asst. Lectureship in Law—Kenneth Bain, LL.B.

**EXTRA-MURAL WORK.** In rural areas the work is organized by Resident Tutors (29 centres in Gloucestershire, 46 in Somerset); 27 short courses, 116 lectures were given. Visits of teachers from and to other Univs. Prof. Lennard-Jones has spent six months in research work at Göttingen Univ.; Prof. Crofts delivered a series of lectures in French Univs.; Prof. Lefebvre and Prof. Vermeil of Strasbourg Univ., and Prof. René Gallard of Bordeaux Univ. delivered lectures in the Univ.

**RETIREMENTS.** G. A. Buckmaster, Prof. of Physiology (appointed Emer. Prof. and temporarily in charge of the Dept.); F. H. Edgeworth, Prof. of Med. (appointed Emer. Prof.); A. L. Flemming, Head of Dept. of Anæsthetics; Mrs. Ferguson (*nee* Gilchrist), Lectr. in Botany; J. W. S. Tomlin, Recogn. Teacher in Theol. Subjects; Marjorie S. Poles, Recogn. Teacher in Phys. Training (Dept. of Educ. Women); and F. C. Jones, Asst. in Dept. of History.

**DEATHS.** C. A. Morton, Emer. Prof. of Surgery; the Rev. Canon Gamble, member of Council; and H. G. Eycott, Asst. Librarian.

**STUDENTS.** Full-time: total, 527 men, 332 women, including 13 men, 4 women graduates; part-time: total, 16 men, 32 women, including 2 men graduates.

**DEGREES OBTAINED.** B.A., 29 men, 46 women; B.Sc., 35 men, 9 women; B.Sc. in Eng., 17 men, 1 woman; M.B., Ch.B., 9 men, 4 women; M.A., 1 man; M.Sc., 1 man, 1 woman; M.Sc. in Eng., 1 man; Ph.D., 6 men; M.D., 2 men.

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G.C.V.O., B.A., Hon. LL.D. Trinity.

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.St. Catharine's and King's ; G. H. A. WILSON, M.A. Clare.

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CLARE	„	G. H. A. WILSON, M.A.
CORPUS CHRISTI	„	W. SPENS, M.A.
DOWNING	„	Prof. A. C. SEWARD, Sc.D., F.R.S.
EMMANUEL	„	P. GILES, Litt.D.
GONVILLE AND CAIUS	„	J. F. CAMERON, M.A.
JESUS	„	A. GRAY, M.A.
KING'S	<i>Provost</i>	A. E. BROOKE, D.D.
MAGDALENE	<i>Master</i>	A. B. RAMSAY, M.A.
PEMBROKE	„	Prof. A. HUTCHINSON, M.A., F.R.S.
PETERHOUSE	„	LORD CHALMERS OF NORTHAM, P.C., G.C.B., M.A., LL.D.
QUEENS'	<i>President</i>	T. C. FITZPATRICK, D.D.
ST. CATHARINE'S	<i>Master</i>	F. M. RUSHMORE, M.A.
ST. JOHN'S	„	Sir R. F. SCOTT, M.A.

SIDNEY SUSSEX	<i>Master</i>	G. A. WEEKES, M.A.
TRINITY	„	Sir J. J. THOMSON, O.M., M.A., Hon. Sc.D., F.R.S.
TRINITY HALL	„	H. R. DEAN, M.D.
SELWYN	„	G. E. NEWSOM, M.A.
Non-Collegiate Students:	<i>Censor</i>	W. S. THATCHER, M.A.

## RECOGNIZED COLLEGES FOR WOMEN

GIRTON	<i>Mistress</i>	Miss E. H. MAJOR, M.A.
NEWMHAM	<i>Principal</i>	Miss J. P. STRACHEY, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Aeronautics</i> , v. Engineering	Manton, Miss S. M., M.A., Ph.D.
<i>Agriculture</i> , v. also Animal, Estate Man., Forestry	Girton Demr. in Comparative A.
Engledow, F. L., M.A. Joh.	Pennell, V. C., M.A., M.B., B.Chir.
Drapers Prof.	Pemb. Demr.
Venn, J. A., M.A. Trin.	<i>Anglo-Saxon</i>
Gilbey Lectr.	Chadwick, H. M., M.A. Clare
Engledow, F. L., M.A. Joh. Lectr.	Elrington and Bosworth Prof.
Mansfield, W. S., M.A. Emm.	<i>Animal Pathology</i>
Lectr.	Buxton, J. B., M.A. Prof.
Line, J., M.A. Emm. Lectr.	<i>Anthropology</i> , v. also Eth.
Taylor, E. McK., Ph.D. Joh.	..... Frazer Lectr.
Lectr.	Sayce, R. U., M.A. (Mat. Cult. and Phys. A.) Lectr.
Woodman, H. E., M.A. Down.	<i>Arabic</i> , v. Oriental
Demr.	<i>Archæology</i> , v. also Classical A., Classics, Orient.
Garner, F. H., M.A. Cla. Lectr.	Minns, E. H., Litt.D. Pemb.
Newman, L. F., M.A. Cath.	Disney Prof.
Demr.	Burkitt, M. C., M.A. Trin. Lectr.
<i>Agric. Biology</i>	de Navarro, J. M., M.A. Trin. Lectr.
Walton, A., Ph.D. Down. Demr.	Phillpotts, Dame B. S., M.A.
<i>Agric. Botany</i> [Prof.	Girton Lectr.
Biffen, Sir Rowland H., M.A. Cath.	<i>Architecture, School of</i>
<i>Agric. Physiology</i> [Reader.	Fyfe, D. T., M.A. Pemb., F.R.I.B.A. Director & Lectr.
Marshall, F. H. A., Sc.D. Chr.	Hughes, H. C., M.A. Pet., A.R.I.B.A. Lectr.
<i>Anatomy</i> , v. also Zool.	Pite, B., Hon. M.A. Cai., F.R.I.B.A. Lectr.
Wilson, J. T., M.A. Joh. Prof.	Cosens, C. R. G., M.A. King's Lectr.
Duckworth, W. L. H., M.D., Sc.D.	<i>Art</i> [Slade Prof. of Fine Art.
Jes. (Human A.) Reader.	Prior, E. S., M.A. Cai.
Shearer, C., Sc.D. Cla. (Embryo- logy) Lectr.	
Appleton, A. B., M.D. Down. „	
Fell, W. A., B.A. Sid. Demr.	
Reid, D. G., M.A. Trin. Demr.	
Green, H. L. H. H., M.A. Sid.	
Demr.	

Fyfe, D. T., M.A. Pemb.; Tomlinson, H., M.A. Chr. Lectrs.  
Checkley, G., M.A. Demr.

*Assyriology*, v. Oriental Langs.

*Astronomy* [Plumian Prof.

Eddington, A. S., M.A. Trin.

Smart, W. M., M.A. Trin.

Chief Asst. & Adams Astronomer.

Green, H. E. Second Asst.

*Astron. & Geom.* [Lowndean Prof.

Baker, H. F., Sc.D. Joh.

*Astrophysics*

Stratton, F. J. M., D.S.O., M.A. Cai. Prof.

Carroll, J. A., M.A., Ph.D. Sid.

Lectr. & Asst. Dir.

Wormell, T. W., B.A., Ph.D. Joh.

Obs. in Meteorological Phys.

Baxandall, F. E., A.R.C.Sc.

1st Sen. Solar Physics Observer.

Butler, C. P., A.R.C.Sc.

2nd Sen. Solar Physics Observer.

Moss, W., Junior Observer.

*Bibliography*

de Ricci, S. Sandars Reader.

*Biochemistry*

[Sir W. Dunn Prof.

Hopkins, Sir F. G., M.A. Trin.

Haldane, J. B. S., M.A. Trin.

Sir W. Dunn Reader.

Hele, T. S., M.D. Emm. Lectr.

Onslow, Hon. Mrs., M.A. Newnham Lectr.

Dixon, M., Ph.D. Emm. Lectr.

Needham, N. J. T. M., M.A., Ph.D. Cai. Demr.

*Biology* [Quick Prof.

Nuttall, G. H. F., Sc.D. Magd. (Dir. of Molteno Inst. of *Parasitology*)

Keilin, D., M.A. Magd.

Lectr. (*Parasitology*) and Asst.

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McCombie, H., M.A. King's

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Norrish, R. G. W., Ph.D. Emm.

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Demr.

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Charlesworth, M. P., M.A. Joh.

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Morris, G. G., M.A. Corp.  
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 Rackham, H., M.A. Chr.  
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 Sikes, E. E., M.A. Joh.  
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 Hulsean Prof.  
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 G.) Lectr.

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*Hebrew*, v. Oriental

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Butler, Miss K. T. B., M.A. Girton  
 Lectr.

Pettoello, D., Dr. Phil. Turin  
 Teacher.

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 Downing Prof.

#### *Law*

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 Duff, P. W., M.A. Trin.  
 Goodhart, A. L., M.A., LL.M. Corp.  
 McNair, A. D., LL.D. Cai.  
 Turner, J. W. C., M.A., LL.B.,  
 Trin. H.  
 Wade, E. C. S., M.A., LL.M. Joh.  
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 Buckland, W. W., LL.D. Cai.

#### *Law, English*

Winfield, P. H., LL.D. Joh.  
 Rouse Ball Prof.

Hollond, H. A., O.B.E., M.A. Trin.  
Reader.

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Campbell, A., B.A. Pemb. Lectr.

*Law, Internat.*  
Higgins, A. Pearce, C.B.E., LL.D.,  
K.C. Trin. Whewell Prof.

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..... Leslie Stephen Lectr.  
*Logic*, v. Philos.

*Mathematics*

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Hobson, E. W., Sc.D. Chr. (Pure  
M.) Sadleirian Prof.  
Littlewood, J. E., M.A. Trin.  
Rouse Ball Prof.

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Cayley Lectr.  
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Ramsey, A. S., M.A. Magd.  
Ramsey, F. P., M.A. King's.  
Room, T. G., M.A. Joh.  
Steen, S. W. P., M.A. Chr.  
Swain, Miss L. M., M.A., Newnham.  
White, F. P., M.A. Joh.  
Wood, P. W., M.A. Emm.  
Lamb, H., M.A., Hon. Sc.D. Trin.  
Rayleigh Lectr.

Weyl, Prof. H. (Zurich)  
Rouse Ball Lectr.

*Medicine and Surgery*, v. *infra*

*Metallurgy*

..... Goldsmiths' Reader.

*Meteorology*, v. *Astrophysics*

*Military Studies*

Costello, Br.-Gen. E. W., V.C.,  
C.M.G., D.S.O. Director.

*Mineralogy*

Hutchinson, A., O.B.E., M.A.  
Pemb. Prof.  
Wooster, W. A., Ph.D. Pet. Demr.  
Phillips, F. C., M.A., Ph.D. Corp.  
Demr.

*Moral Science*, v. *Philos.*

*Music*

[Prof  
Dent, E. J. M.A., Mus.B. King's  
Naylor, E. W., Mus.D. Emm.  
Lectr.  
Rootham, C. B., Mus.D. Joh.  
Lectr. (Harmony and  
Counterpoint).

*Oriental Langs.*, v. *infra*

*Palæography*, v. *Classics*

*Palæozoology*

Woods, H., M.A. Joh. Lectr.

*Parasitology*, v. *Biol.*

*Petrology*

Harker, A., M.A. Joh. Reader.  
Tilley, C. E., Ph.D. Emm. Lectr.

*Philology, Comparative*

Giles, P., Litt.D. Emm. Reader.

*Philosophy, Mental, and Logic*

Moore, G. E., Litt.D. Trin. Prof.

*Philos., Moral*, v. also *Psychol.*,  
*Religion*

Sorley, W. R., Litt.D. King's  
Knightbridge Prof.  
Johnson, W. E., M.A. King's  
Sidgwick Lectr.  
Broad, C. D., Litt.D. Trin. Lectr.  
Braithwaite, R. B., M.A. King's  
Lectr.

*Philos., Natural*

Wilson, C. T. R., M.A. Sid.  
Jacksonian Prof.

*Physical Chem.*

Lowry, T. M., C.B.E., M.A.  
Trin. H. Prof.  
Rideal, E. K., M.A. Trin. H.  
H. O. Jones Lectr.

## University Extension

Stipendiary Lecturers, appointed  
by Board of Extra-mural  
Studies: P. L. Babington,  
M.A., LL.B. Joh. (James  
Stuart Lecturer), G. P. Bailey,

Hon. M.A. (James Stuart  
Lecturer), I. C. Hannah,  
M.A. Trin., D. R. Hardman,  
M.A. Chr., E. Sewell Harris,  
M.A. Joh., and B. Willey,  
M.A. Pet.

## THE COLLEGES

CHRIST'S COLLEGE. Founded 1505. Master—N. McLean, M.A. Fellows :

Hobson, Prof. E. W., M.A., Sc.D.,  
F.R.S.  
Rackham, H., M.A.  
Haddon, A. C., M.A., Sc.D., F.R.S.  
Campbell, S. G., M.A.  
Valentine-Richards, A. V., M.A.  
Marshall, F. H. A., M.A., Sc.D., F.R.S.  
Saunders, J. T., M.A., *Tutor*.  
Downs, B. W., M.A., *Tutor*.

Grose, S. W., M.A., *Tutor*.  
Wyatt, T. C., M.A.  
Murray, E. G. D., M.A.  
Steen, S. W. P., M.A.  
Steel, A. B., M.A.  
Peck, A. L., M.A.  
Rose, Prof. J. Holland, Litt.D.  
Rastall, R. H., M.A., Sc.D.  
Harris, T. M., M.A.

CLARE COLLEGE. Founded 1326. Master—G. H. A. Wilson, M.A., O.B.E.,  
M.P. Fellows :

Fulford, H. W., M.A.  
Wardale, J. R., M.A.  
Chadwick, Prof. H. M., M.A., F.B.A.  
Thirkill, H., M.C., M.A., *Tutor*.  
Forbes, M. D., M.A.  
Harrison, W. J., M.B.E., M.A.

Landon, J. W., M.B.E., M.A.  
Telfer, W., M.C., M.A.  
Priestley, R. E., M.C., M.A.  
Nock, A. D., M.A.  
Godwin, H., M.A., Ph.D.  
Spooner, E. T. C.

CORPUS CHRISTI COLLEGE. Founded 1352. Master—William Spens,  
C.B.E., M.A. Fellows :

Pollock, C. A. E., M.A.  
Pearce, E. C., D.D., Lord Bishop of  
Derby.  
Pickthorn, K. W. M., M.A., *Senior  
Tutor*.  
Hoskyns, Sir Edwyn C., Bt., M.A.  
Morris, G. G., M.A., *Bursar*.  
Clark-Kennedy, A. E., M.A., M.D.,  
M.R.C.P.

Goodhart, A. L., M.A., LL.M.  
Sanders, T. R. B., M.A.  
Smyth, C. H. E., M.A.  
MacCurdy, J. T., Sc.D. (M.D. Johns  
Hopkins).  
Mynors, H. C. B., M.A., *Assistant  
Tutor*.  
Phillips, F. C., Ph.D.  
Charvet, P. E., B.A.

DOWNING COLLEGE. Founded 1800. Master—A. C. Seward, M.A.,  
Sc.D., F.R.S., Prof. of Botany. J. B. Bradbury, M.D., Downing Prof. of Med. ;  
H. D. Hazeltine, M.A., Litt.D., F.B.A., Downing Prof. of Laws of England.  
Fellows :

Kenny, C. S., LL.D., F.B.A.  
Saunders, J. C., M.A.  
Widdicombe, J. H., M.A., *Senior  
Tutor*.  
Berry, A. J., M.A.

Thomas, H. H., M.A., Sc.D.  
Smith, F. B., M.A., C.M.G.  
Whalley-Tooker, H. C., M.A., LL.M.,  
*Tutor*.

EMMANUEL COLLEGE. Founded 1584. Master — Peter Giles, Litt.D., F.B.A., Reader in Comp. Philol. Fellows:

Bennett, G. T., M.A., Sc.D., F.R.S.	Wallace, J. C., M.C., M.A.
Greenwood, L. H. G., M.A.	Line, J., A.F.C., M.A.
Wood, A., M.A., <i>Tutor</i> .	Norrish, R. G. W., Ph.D.
Wood, P. W., M.A., <i>Senior Tutor</i> .	Head, F. W., M.C., M.A.
Whitney, Prof. J. P., M.A., D.D.	Wright, G. J. H., D.S.O., M.A., <i>College Secretary</i> .
Hele, T. S., O.B.E., M.A., M.D., <i>Tutor</i> .	Grave, W. W., M.A., Ph.D.
Jones, Prof. B. M., A.F.C., M.A.	Carslaw, H. S., M.A., Sc.D.
Burnaby, H., M.A.	Stoner, E. C., Ph.D.
Gardner, R., M.C., M.A., <i>Bursar</i> .	Wilson, A. H., B.A.
Welbourne, E., M.C., M.A., <i>Tutor</i> .	

GONVILLE AND CAIUS COLLEGE. Founded 1348. Master—J. F. Cameron, M.A. Fellows:

Muir, M. M. P., M.A.	Prior, Prof. E. S., M.A., A.R.A.
Gallop, E. G., M.A.	Okey, Prof. T., M.A.
Buckland, Prof. W. W., M.A., LL.D., F.B.A., <i>President</i> .	Debenham, F., O.B.E., M.A.
Vesey, W. T., M.A.	Cook, S. A., M.A., Litt.D.
Hardy, Sir W. B., M.A., F.R.S.	Chadwick, J., Ph.D., F.R.S.
Gardiner, Prof. J. S., M.A., F.R.S.	Bennett, E. K., M.A.
Punnett, Prof. R. C., M.A., F.R.S.	Tunncliffe, H. E., M.A.
Stratton, Prof. F. J. M., D.S.O., M.A., <i>Senior Tutor</i> .	Needham, N. J. T. M., M.A., Ph.D.
Wood, Prof. T. B., C.B.E., M.A., F.R.S.	Oakeshott, M. J., M.A.
Brooke, Z. N., M.A.	Deas, H. T., M.A.
McNair, A. D., C.B.E., M.A., LL.D.	Florey, H. W., B.A., Ph.D.
Bullough, E., M.A.	Roberts, H. A., M.A.
Scott, J. E., M.A., M.C.	Schram, O. K., Ph.D.
Phear, H. W., M.A.	Bellerby, J. R.
	Heywood, H. C. L., B.A.
	Weller, E. P., M.A., <i>Bursar</i> .

JESUS COLLEGE. Founded 1496. Master—A. Gray, M.A. Fellows:

Watt, J., M.A.	Quiller-Couch, Prof. Sir Arthur T., M.A.
Foakes-Jackson, F. J., M.A., D.D.	Nairne, Prof. A., M.A., D.D.
Abbott, E., M.A., <i>Tutor</i> .	Manning, B. L., M.A.
Duckworth, W. L. H., M.A., M.D., Sc.D.	Pars, L. A., M.A.
Elliott, C. A., M.A., <i>Tutor</i> .	Barnes, H., M.A., LL.B.
Mills, W. H., M.A., F.R.S.	Gardner-Smith, P., M.A.
	Sinker, A. P., B.A.

KING'S COLLEGE. Founded 1441. Provost—A. E. Brooke, M.A., D.D. Fellows:

Hollingworth, H., M.A.	Inglis, Prof. G. E., O.B.E., M.A.
Grant-Ives, C. E., M.A.	Sorley, Prof. W. R., M.A., Litt.D., F.B.A.
Tilley, A. A., M.A.	Johnson, W. E., M.A., F.B.A.
Macaulay, W. H., M.A.	Pigou, Prof. A. C., M.A., F.B.A.
Dickinson, G. L., M.A.	Sheppard, J. T., M.B.E., M.A.
Richmond, H. W., M.A., F.R.S.	Clapham, Prof. J. H., C.B.E., M.A., Litt.D., F.B.A.
Wedd, N., M.A.	Keynes, J. M., C.B., M.A., F.B.A.
Heycock, C. T., M.A., F.R.S.	Adcock, Prof. F. E., O.B.E., M.A.
Reddaway, W. F., M.A.	Gray, J., M.A., M.C.
Sills, H. H., M.A.	Birch, F. L., O.B.E., M.A.
Barcroft, Prof. J., C.B.E., M.A., F.R.S.	

Milner-White, E., D.S.O., M.A.  
 McCombie, H., D.S.O., M.A., M.C.  
 Turner, L. B., M.A.  
 Durnford, H. G. E., M.A., M.C.  
 Lucas, F. L., M.A.  
 Mann, A. H., M.A.  
 Adair, G. S., M.A.  
 Blackett, P. M. S., M.A.  
 Ord, B., Mus.B., M.A.  
 Scholfield, A. F., M.A.  
 Beves, D. H., M.A.  
 Braithwaite, R. B., M.A.  
 Ramsey, F. P., M.A.  
 Penrose, A. P. D., M.A.

Shove, G. F., M.A.  
 Stockdale, D., Ph.D., M.A.  
 Dent, Prof. E. J., M.A., Mus.B.  
 Forster, E. M., M.A.  
 Thomson, G. D., M.A.  
 Hall, P., M.A.  
 Rylands, G. H. W., M.A.  
 Balfour, R. E., M.A.  
 Breul, Prof. K. H., M.A., Litt.D.  
 Wollaston, A. F. R., D.S.C., M.A.,  
     B.Chir., *Tutor*.  
 Matthews, B. H. C., B.A.  
 Lucas, D. W., B.A.

MAGDALENE COLLEGE. Founded 1542. Master—A. B. Ramsay, M.A.  
 Fellows:

Peskett, A. G., M.A.  
 Ramsey, A. S., M.A., *President*.  
 Vernon Jones, V. S., M.A., *Senior Tutor*.  
 Nuttall, Prof. G. H. F., M.A., Sc.D.,  
     F.R.S.  
 Peel, T., M.A.  
 Gaselee, S., C.B.E., M.A.  
 Salter, F. R., M.A., *Tutor*.

Morshead, O. F., D.S.O., M.A.  
 King, W. B. R., O.B.E., M.A.  
 Clark, F. H. H., M.A.  
 Richards, I. A., M.A.  
 Turner, F. McD. C., M.A.  
 Scott, F. R. F., M.A., *Tutor*.  
 Piccoli, Prof. R., M.A.

PEMBROKE COLLEGE. Founded 1347. Master—Prof. A. Hutchinson,  
 O.B.E., M.A., F.R.S. Fellows:

Whibley, L., M.A.  
 Bethune-Baker, Prof. J. F., M.A.,  
     D.D., F.B.A.  
 Lawson, J. C., O.B.E., M.A., *Tutor*.  
 Comber, H. G., D.S.O., M.A.,  
     *Treasurer*.  
 Minns, Prof. E. H., M.A., Litt.D.,  
     F.B.A.  
 Pennell, V. C., M.A., M.B., B.Chir.,  
     F.R.C.S.

Spittle, J. T., O.B.E., M.A., *Tutorial*  
     *Bursar*.  
 Attwater, A. L., M.A., *Librarian*.  
 McClelland, N. P. K. J. O'N., M.A.,  
     *Bursar*.  
 Wynn, H. E., M.A., *Dean*.  
 King, B. E., B.A.  
 Roberts, S. C., M.A.  
 Pascal, R., B.A.  
 Whittaker, J. M., B.A.

PETERHOUSE. Founded 1284. Master—Rt. Hon. Lord Chalmers, P.C.,  
 G.C.B., M.A., LL.D., F.B.A. Fellows:

Dickson, J. D. H., M.A.  
 Walker, T. A., M.A., LL.D.  
 Barnes, Prof. W. E., M.A., D.D.  
 Temperley, H. W. V., O.B.E., M.A.,  
     Litt.D., F.B.A.  
 Vellacott, P. C., D.S.O., M.A., *Tutor*.  
 Lubbock, R., M.A., *Bursar*.

Francis, E. C., M.A.  
 Gillett, C. S., M.A., *Dean*.  
 Butterfield, H., M.A.  
 Hallward, B. L., M.A.  
 Barker, Prof. E., Litt.D.  
 Middleton, H. S., M.A., Mus.B.  
 Birkill, J. C., M.A.

QUEENS' COLLEGE. Founded 1448. President—T. C. Fitzpatrick, D.D.  
 Fellows:

Gray, J. H., M.A.  
 Kennett, Prof. R. H., M.A., D.D.  
 Munro, A., M.A., *Bursar*.  
 Wood, C. T., M.A., B.D.  
 Cook, A. B., M.A., Litt.D.

Laffan, R. G. D., M.A.  
 Sleeman, G. M., M.A., *Tutor*.  
 Browne, A. D., M.A., *Tutor*.  
 Potts, L. J., M.A.  
 Venn, J. A., M.A.

## CAMBRIDGE

ST. CATHARINE'S COLLEGE. Founded 1473. Master—F. M. Rushmore, M.A. Fellows :

Jones, W. H. S., M.A., Litt.D., <i>President.</i> Biffen, Prof. Sir Rowland H., M.A., F.R.S. Chaytor, H. J., M.A., <i>Senior Tutor.</i>	Newman, L. F., M.A., <i>Asst. Tutor.</i> Portway, D., M.A., <i>Asst. Tutor.</i> Withers, Sir J. J., C.B.E., M.A., M.P. Steers, J. A., M.A. Henn, T. R., M.A.
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ST. JOHN'S COLLEGE. Founded 1511. Master—Sir R. Forsyth Scott, M.A. Fellows :

Stevens, A. J., M.A. Heitland, W. E., M.A. Webb, R. R., M.A. MacAlister, Sir Donald, Bart., K.C.B., M.A., M.D. Larmor, Prof. Sir Joseph, M.A., Hon. Sc.D., F.R.S. Marr, Prof. J. E., M.A., Sc.D., F.R.S. Harker, A., M.A., F.R.S. Tanner, J. R., M.A., Litt.D. Baker, Prof. H. F., M.A., Sc.D., F.R.S. Shore, L. E., O.B.E., M.A., M.D. Sikes, E. E., M.A., <i>President.</i> Blackman, F. F., M.A., F.R.S. Glover, T. R., M.A. Ward, J. T., M.A. Foxwell, H. S., M.A., F.B.A. Benians, E. A., M.A., <i>Tutor.</i> Rapson, Prof. E. J., M.A. Cunningham, E., M.A. Jeffreys, H., M.A., F.R.S. Rootham, C. B., M.A., Mus.D. Palmer, W. G., M.A. Bartlett, F. C., M.A. Creed, Prof. J. M., M.A., B.D. Coulton, G. Gordon, Litt.D. Prior, Prof. O. H. P., M.A. Engledow, F. L., M.A.	White, F. P., M.A. Wilson, Prof. J. T., M.A., F.R.S. Briggs, G. E., M.A. Wordie, J. M., M.A., <i>Tutor.</i> Winfield, Prof. P. H., LL.D. Yule, G. U., C.B.E., M.A., F.R.S. Charlesworth, M. P., M.A., <i>Tutor.</i> Howard, Sir H. F., C.S.I., K.C.I.E., M.A. Raven, E. E., M.A. Evans, I. L., M.A. Newman, M. H. A., M.A. Rolleston, Prof. Sir Humphry D., Bart., K.C.B., M.A., M.D. Previté-Orton, C. W., M.A. Dymond, E. G., M.A. Constable, F. H., M.A., Ph.D. Room, T. G., M.A. Guillebaud, C. W., M.A., <i>Tutor.</i> Boys-Smith, J. S., M.A. Noble, P. S., M.A. Dirac, P. A. M., Ph.D. Wade, E. C. S., M.A., LL.M. Cockcroft, J. D., M.A., Ph.D. Goldstein, S., M.A., Ph.D. Leahey, L. S. B., M.A. Howland, R. L., B.A.
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SIDNEY SUSSEX COLLEGE. Founded 1596. Master—G. A. Weekes, M.A. Fellows :

Robson, H. C., M.A. Mayall, R. H. D., M.A. McNeile, A. H., M.A., D.D. Pope, Prof. Sir William J., K.B.E., M.A., F.R.S. Knox-Shaw, T., M.A., <i>Tutor.</i> Hackforth, R., M.A. Wilson, Prof. C. T. R., M.A., F.R.S.	Smith, B. T. D., M.A. Passant, E. J., M.A. Davenport, A. H., M.A. Green, H. L. H. H., M.A. Ratcliffe, J. A., M.A. Dee, P. I., M.A. (Research Fellow). Welchman, W. G., M.A. (Research Fellow).
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TRINITY COLLEGE. Founded 1546. Master—Sir Joseph J. Thomson, O.M., Hon. Sc.D., F.R.S. (Prof. of Physics). Fellows :

Kirkpatrick, Very Rev. A. F., M.A., D.D. Boughey, A. H. F., M.A.	Glazebrook, Sir Richard T., K.C.B., M.A., F.R.S.
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- Frazer, Sir James G., O.M., M.A., Litt.D., F.B.A., F.R.S.  
 Parry, R. St. J., M.A., D.D.  
 Duff, J. D., M.A.  
 Whitehead, A. N., M.A., Sc.D., F.R.S.  
 Bevan, Prof. A. A., M.A., F.B.A.  
 Dampier-Whetham, W. C., M.A., F.R.S.  
 Capstick, J. W., O.B.E., M.A.  
 Innes, H. McL., M.A.  
 Fletcher, Sir Walter M., K.B.E., C.B., M.A., M.D., Sc.D., F.R.S.  
 Cornford, F. M., M.A.  
 Harrison, E., M.A.  
 Laurence, R. V., C.V.O., M.A.  
 Lapsley, G. T., M.A.  
 Winstanley, D. A., M.A., *Tutor*.  
 Dykes, F. J., M.A., *Tutor*.  
 Eddington, Prof. A. S., M.A., F.R.S.  
 Littlewood, Prof. J. E., M.A., F.R.S.  
 Newall, Prof. H. F., M.A., F.R.S.  
 Hollond, H. A., D.S.O., O.B.E., M.A., LL.M.  
 Robertson, Prof. D. S., M.A.  
 Hopkins, Prof. Sir F. Gowland, M.A., F.R.S.  
 Housman, Prof. A. E., M.A.  
 Simpson, F. A., M.A.  
 Tennant, F. R., M.A., D.D.  
 Butler, J. R. M., M.V.O., O.B.E., M.A., *Tutor*.  
 Adrian, E. D., M.A., M.D., F.R.S.  
 Fowler, R. H., M.A., F.R.S.  
 Robertson, D. H., M.A.  
 Burnaby, J., M.A.  
 Stewart, H. F., M.A., D.D.  
 Rutherford, Prof. Sir E., O.M., M.A., F.R.S.  
 Taylor, G. I., M.A., F.R.S.  
 Nicholas, T. C., O.B.E., M.A.  
 Pollard, S., M.A.  
 Aston, F. W., Sc.D., F.R.S.  
 Lenox-Conyngham, Sir Gerald P., M.A., F.R.S.  
 Ellis, C. D., Ph.D.  
 Pearson, Prof. A. C., Litt.D.  
 Kitson-Clark, G. S. R., M.A.  
 Broad, C. D., M.A., Litt.D.  
 Roughton, F. J. W., M.A., Ph.D.  
 Dean, W. R., M.A.  
 Moore, Prof. G. E., M.A., Litt.D., F.B.A.  
 Gow, A. S. F., M.A., *Tutor*.  
 Duff, P. W., M.A.  
 Kapitzka, P., Ph.D.  
 Burkitt, Prof. F. C., D.D., F.B.A.  
 Higgins, Prof. A. P., C.B.E., LL.D., F.B.A., K.C.  
 Nicholson, Prof. R. A., Litt.D., F.B.A.  
 Rattenbury, R. M., B.A.  
 Thomas, L. H., Ph.D.  
 Trevelyan, Prof. G. M., M.A.  
 Runciman, J. C. S., M.A.  
 Sandbach, F. H., M.A.  
 Cross, A. G. N., M.A.  
 Winnington-Ingram, R. P., M.A.  
 de Bruyne, N. A., B.A.  
 Edge, W. L., B.A.  
 Pantin, C. F. A., M.A.  
 Black, M., B.A.  
 Feather, N., B.A.  
 Gaunt, J. A., B.A.  
 Ursell, H. D., B.A.

TRINITY HALL. Founded 1350. Master—Prof. H. R. Dean, M.D. Fellows :

- Bond, H., LL.D.  
 Rendell, W. R., M.A.  
 Angus, C. F., M.A., *Librarian*.  
 Potts, F. A., M.A., *Asst. Tutor*.  
 Chase, G. A., M.A., *Tutor and Dean*.  
 Hayes, R. A., M.A.  
 Oliver, D. T., LL.M.  
 Rideal, E. K., M.B.E., M.A.  
 Crawley, C. W., M.A., *Asst. Tutor and Praelector*.  
 Turner, J. W. C., M.A.  
 Cooper, C. Forster, M.A., *Bursar and Steward*.

SELWYN COLLEGE. Founded 1882. Master—G. E. Newsom, M.A. Fellows :

- Jordan, W. E., M.A., *Vice-Master and Tutor*.  
 Borradaile, L. A., M.A., Sc.D., *Tutor*.  
 Williams, W. N., M.A., LL.B.  
 Marsh, F. S., M.A., *Tutor*.  
 Perrett, G. B., M.A., *Bursar*.  
 Durrant, P. J., M.A., Ph.D.  
 Blyth, A. C., M.A.  
 Murray, J. O. F., M.A., D.D.  
 Woodward, F. H., B.A.

NON-COLLEGIATE STUDENTS: FITZWILLIAM HOUSE. Established 1869. Censor—W. S. Thatcher, M.A.; Asst. Censor, Bursar and Chaplain—W. Harvey, M.A.

Supervisors of Studies. *Agriculture*: S. W. U. Muncey, M.A. *Botany*: H. G. Wager, M.A. *Chemistry*: P. J. Durrant, M.A. *Classics*: B. F. G. Atkinson, M.A., Ph.D. *Economics*: E. A. G. Robinson, M.A. *English*: B. Willey, M.A. *Geography*: C. G. Joseph, M.A. *Geology*: W. B. R. King, O.B.E., M.A. *German*: A. E. Hammer, M.A. *History*: C. J. B. Gaskoin, M.A. *Law*: C. H. Ziegler, M.A. *Mathematics*: J. J. Welch, M.A. *Mechanical Sciences*: R. A. Hayes, M.A. *Medical Studies*: E. G. Holmes, M.A. *Mediæval and Modern Languages*: A. J. Wyatt, M.A.; J. W. Barker, Ph.D. *Moral Sciences*: C. Fox, M.A. *Physics*: G. Stead, M.A. *Theology*: H. Burnaby, M.A. *Zoology*: L. E. S. Eastham, M.A.

#### WOMEN'S COLLEGES recognized by the University :

GIRTON COLLEGE. Founded 1869. Mistress—Miss E. H. Major, M.A.

Directors of Studies: F. E. Cave-Browne-Cave, M.A. (Mathematics); J. R. Bacon, M.A. (Classics); M. B. Thomas, M.A. Dub. (Natural Sc.); M. G. Jones, M.A. (Hist. and Law); K. T. Butler, M.A. (Mod. and Med. Languages); Mrs. M. Hollond, Ph.D. Columbia (Econ.); H. M. R. Murray, M.A. (English and Philology), Vice-Mistress; Resident Lectrs. in Maths., Mrs. Veitch, M.A.; in History, H. M. Cam, M.A. Lond.; in French, Mlle. Bibas, M.A.; in English, M. G. Lloyd Thomas, M.A. Ox. Supervisor in Zoology: S. M. Manton, M.A. Supervisor in Geography: M. S. Willis, M.A.

Bursar—F. M. Smith, M.A. (from April 1930). Secy.—M. Clover, M.A. Junior Bursar—K. M. Robertson, M.A. Librarian and Registrar of the Roll—E. S. Fegan, M.A. Secretary to the Mistress—R. D. Wetton.

NEWNHAM COLLEGE. Founded 1871. Principal—Miss J. P. Strachey, M.A.

Tutors—A. B. Dale, M.A. (Old Hall); Mrs. Palmer, M.A. (Peile Hall); M. Steele Smith, M.A. (Clough Hall), Director of Studies in English; M. W. Hughes (acting) (Sidgwick Hall).

Other Lectrs.: L. M. Swain, M.A.; J. Toynbee, M.A. (Classics); G. L. Elles, D.Sc., T.C.D. (Geol.); A. C. Davies, D.Sc. Lond. (Physics); H. J. Pybus, M.A. Ox. (Hist.); E. M. Butler, M.A. (Mod. Langs.); E. E. H. Welsford, M.A. (English); Mrs. Hollond, Ph.D. Columbia (Econ.). Bursar—Mrs. Lacy. Registrar of the Roll—M. Steele Smith.

## GENERAL INFORMATION

The legislative and executive authority of the Univ. is vested in the REGENT HOUSE, which comprises those Univ. Officers, Fellows of Colls., and others, who are concerned with its teaching and administrative work. A meeting of the Regent House is called a *Congregation*.

There is a right of appeal against a decision of the Regent House, on the motion of at least one-third of its members, to the SENATE, which consists of graduates of at least seven years' standing from their first term of residence, who have taken a degree of Doctor or Master, or the degree of Bachelor of Divinity. In order to be successful an appeal must be sustained by a statutable majority. The Senate elects the Chancellor and certain other officers, confers degrees, and holds meetings for the discussion of proposals.

Changes of statute can be made by the Univ. with the approval of the Privy Council, and Parliament.

Many executive duties, and the duty of sanctioning the submission of

resolutions (called *Graces*) to a Congregation, are entrusted to the *Council of the Senate*, which is elected by the Regent House.

The titular presiding officer at a Congregation, and the Chairman of the Council, is the Chancellor, who is by custom a non-resident distinguished in public life. His duties are in fact performed by the Vice-Chancellor, who is a Head of a College, appointed annually, in theory by the Regent House, in practice by the Council. It is customary for the Vice-Chancellorship not to be held for more than two years in succession by one person.

There are numerous *Boards* and *Syndicates* for dealing with the various branches of University business: the most important of them are the *General Board of the Faculties*, whose duty it is to advise the Univ. as to educational policy and to supervise and co-ordinate the work of the Faculties, and the *Financial Board*, whose duty it is to supervise the finance of all spending departments.

There are twenty Faculties, a Faculty being a body of teachers in a subject or group of subjects. The organization of teaching, research, and examinations in the various subjects is in the hands of the several Faculty Boards, subject to the control of the General Board. A Faculty Board is in part composed of members elected by the Faculty. The large scientific Faculties are divided into Departments, under a Head, generally a Professor, who is responsible to the Faculty Board for the management of his Department.

The INCOME of the Univ. is derived from the endowments of specific posts, from general endowment (though to a small extent only), from the fees of students, from the statutable contributions of Colls., and from a Treasury Grant.

DISCIPLINE outside the walls of the Colls. is maintained by the Proctors.

The Univ. TEACHING OFFICERS are the Professors, Readers, Univ. Lecturers, and Univ. Demonstrators. They, as well as most of the administrative officers, are required to join in the Federated Superannuation Scheme for Univs. The retiring age is 65 for men, and 60 for women.

The COLLEGES are self-governing corporate bodies distinct from the Univ., owning and managing their separate property, the corporators being the Head and Fellows. Their powers are, however, limited by their Statutes, which cannot be altered by them without notice to the Univ. and approval by the Privy Council. The functions of the Colls. in regard to students are to provide lodging, corporate life, and personal tuition, while the function of the Univ. is to provide public instruction by means of lectures and demonstrations, examinations leading to degrees, and facilities for research. The affairs of the Colls. are, however, closely interwoven with those of the Univ. Most of the Fellows of Colls. are Univ. officers, indeed the Statutes require that a certain proportion of the Fellowships of each Coll. shall be held by Univ. officers. And each Coll. is required by Statute to contribute a certain fraction of its income to the funds of the Univ., the scale of contribution being graduated according to the wealth of the College.

The Colls. also maintain Fellowships for the furtherance of research, and a large number of Scholarships. The title of scholar is awarded on purely intellectual grounds, but, as at Oxford, no Coll. emolument other than an allowance for rooms is paid to an undergraduate scholar unless he satisfies the Coll. that his circumstances justify the payment.

NON-COLLEGIATE STUDENTS reside in licensed lodgings or in "Houses" recognized by the Non-Collegiate Students' Board. Such students may, by becoming members of Fitzwilliam House, obtain opportunities for taking part

in communal life (dining in Hall, belonging to athletic clubs, etc.) similar to those enjoyed by members of Colleges.

**WOMEN STUDENTS.** Subject to the condition that the joint number of women students receiving instruction in the Univ. shall not exceed five hundred, the students of the women's Colls. (Girton and Newnham) are admitted to instruction and examinations in the Univ. and to the titles of degrees including research degrees. Women who have received, or are qualified to receive, titles of degrees share with men graduates, under the Representation of the People Acts 1918 to 1928, the privilege of voting for the election of the two Burgesses who represent the Univ. in the House of Commons. Women are eligible for most Univ. offices and for membership of Faculties and Faculty Boards, but cannot become members of the Senate or Regent House. From 1872 women were informally admitted to Tripos examns. in the Univ., and from 1881 have been formally admitted to the *Previous* examn., the Tripos examns., and certain examns. in Med. and Music. They were subsequently admitted to the courses and examns. for the Diplomas in Agric., Horticulture, Forestry, Geog., and in Education. In Oct. 1921 the Grace admitting them to titular degrees was passed. Under the New Statutes in Oct. 1926 women became eligible for all Univ. teaching offices, and in the following year were enabled to compete on the same footing as men for Univ. Studentships, Scholarships, and Prizes, except where the foundation deed specifically excluded them.

**ADMISSION.** To become an undergraduate member of the Univ. a person must first be admitted either as a member of a College or as a Non-Collegiate Student. No person except Research Students (see p. 59) and certain others may be matriculated who has not passed or been exempted from the *Previous Examn.* (see Appendix XX.).

For admission to a College or as a Non-Collegiate student application should be made to the proper officer: the Tutor for Admissions, Christ's; the Senior Tutor, Gonville and Caius, St. John's, Cath., Down; the Tutor, Clare, Corp., Pet., Trin. H.; one of the Tutors, Trin.; the Provost or Tutor, King's; the President, Queens'; the Master, Emm., Jesus, Magd., Pem., Sid., Sel.; the Censor, Fitzwilliam House (Non-Coll. students); the Secretary, Girton; the Principal, Newnham. It is advisable to apply at least 12 mos. beforehand.

As regards *Colonial and Foreign students*, see Appendix XXI.

**ADMISSION TO ADVANCED STANDING.** The following may be admitted as *Affiliated Students*: (a) approved graduates of Associated Institutions; \* (b) certain adult students recommended by the Board of Extra-mural Studies; (c) certain other students on a grace proposed by the Council of the Senate. An *Affiliated Student* is entitled to (1) be exempt from the *Previous Examn.*; (2) reckon the first term kept by residence as the 2nd, 3rd, or 4th term for the purposes of certain provisions respecting the standing of candidates for (a) Tripos examns., or for degrees in Law or Music, and (b) degrees other than the Ordinary B.A. Degree or Degrees of M.Sc., M.Litt., and Ph.D.; (3) secure such a degree in certain circumstances on one part or section of a divided Tripos.

**INCORPORATION.** Students who before admission as members of this Univ. have kept terms by *bona fide* residence at Ox. or Dub. (Trinity College) are, subject to certain provisos, allowed terms corresponding to those which they have so kept; a graduate of Ox. or Dub. (Trinity College) who took a degree or degrees after having duly qualified himself therefor not only by having passed the examns., etc., required, but by having kept his terms by residence in his own Univ., may be admitted on certain conditions to the same

\* List in Appendix XXI.

degree or degrees in Camb. Women graduates of Ox. or Dub. (Trinity College) may be admitted by incorporation to the title of the same degree or degrees in Camb.

INTERCOLLEGIATE INDIAN STUDENTS COMMITTEE: Secy., R. B. Whitehead, M.A., 22 Fitzwilliam St.

TERMS. In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (*i.e.* within a circle of  $2\frac{1}{2}$  miles' radius from Gt. St. Mary's Church) during three-fourths of the term. Full terms begin: 1929-30—Oct. 8, Jan. 14, Apr. 22; 1930-31—Oct. 7, Jan. 14, Apr. 20; end: 1929-30—Dec. 6, Mar. 14, June 13; 1930-31—Dec. 5, Mar. 14, June 11.

DEGREES. B.A., M.A., M.Litt., Litt.D.; M.Sc., Sc.D.; B.D., D.D.; LL.B., LL.M., LL.D.; M.B. and B.Chir., M.Chir., M.D.; Mus.B., Mus.M., Mus.D.; Ph.D.

ARTS. The qualifications for the B.A. are: (i.) 9 terms' residence; (ii.) passing or being exempted from the *Previous Examn.*; (iii.) passing the examns. for the Ordinary Degree or a Tripos examn. or examns.

Exemption from (i.) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (*v. supra*).

(ii.) The *Previous Examn.* includes Latin or Greek, one other language, Maths., and English. Subject to certain provisos, natives of Asia or Africa who are not of European parentage may substitute papers in Arabic, Chinese, Sansk., or Pali for the Latin papers. For details, see Appendix XX.

Exemption from (ii.) can be obtained by students who hold certain certifs. granted by various Univs. of the U.K., by the Scotch Education Dept., or by the Ministry of Education, Northern Ireland, or by certain Australasian, S. African, and American authorities (*v. App. XXI.*); such exemption is also granted to students entitled to the privileges of *Affiliation*, and to certain adult students recommended by the Board of Extra-mural Studies.

As regards (iii.), the Ordinary B.A. is obtained by qualifying in 6 subjects, of which 3 at least must be "Principal" and 1 at least must be chosen from each of 2 groups. The Principal Subjects are—in Group I.: Bible, Church Hist., Engl., Gk., Lat., Fr., Ital., Span., Ger., Rus., Geog., Hist. I., Hist. II., Econ. Hist. and Soc. Insts., Psych., Law I., Law II., Music, Mily. Subjects I., History of Art; in Group II.: Maths., Physics, Chem., Applied Chem., Organ. Chem., Metal., Bot., Zool., Physiol., Geol., Geog., Engin. I., Engin. II., Engin. III., Mily. Subjects II.

Students of *Agriculture* and allied subjects, or of *Architecture*, may proceed to the Ordinary B.A. Degree by means of certain courses dealing with their scientific and practical sides, and including also prescribed literary training.

The Honours B.A. is obtained by passing in one or more of the following Triposes: Archæological and Anthropological, Classical, Economics, English, Geog., Hist., Law, Maths., Mech. Sciences, Mod. and Med. Langs., Mor. Scs., Nat. Scs., Oriental Langs., Theol.

A Bachelor may be admitted Master of Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his admission as B.A.

DIVINITY. A M.A. or LL.M. proceeds to the B.D. on or after the 11th of June in the 7th year from his *creation* or *admission*, either (1) by submitting an original dissertation composed by himself on some subject connected with Biblical Criticism, Exegesis, or History, or with the Nature and Grounds of Christian Belief, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or

Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects. He is required to satisfy the Degree Committee, either by his Dissertation, etc., or otherwise, that he possesses a competent knowledge of Christian Theology. A B.D. of 5 yrs.' standing proceeds to the D.D. by submitting published works or a printed dissertation on the same subjects as those for the B.D.

**LAW.** A student who has kept 9 terms and obtained Hons. in both parts of the Law Tripos, or Hons. in some other Tripos and subsequently Hons. in either part of the Law Tripos, is entitled to proceed to the degree of B.A. To qualify for the LL.B. it is necessary to pass the LL.B. examn. after having kept 9 terms and obtained hons. in Pt. I. or Pt. II. of the Law Tripos, or passed in either Part at the hons. standard, or taken the degree of B.A. and qualified for practice as a barrister or solicitor in England or Ireland, or as an advocate or law agent in Scotland. (For an Affiliated Student these requirements may be modified.) A LL.B. may, not less than 6 years after the end of his 1st term and not less than 2 years since his inauguration or admission, ask leave to submit a dissertation on some branch of law or of the hist. or philosophy of law, and, if such dissertation is approved, he may be admitted to the Degree of LL.M. A LL.M. (as well as holders of certain other degrees) may be admitted LL.D., not less than 8 yrs. after admission to his 1st degree, if he has published one or more original contributions, approved for the purpose, to the advancement of the science or study of Law.

**MEDICINE.** The qualifications for the M.B. and B.Chir. are: (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous Examn.* (v. *supra*); (iii.) 5 yrs.' Med. study; (iv.) passing in due order 3 examns. and (for the M.B. degree) presenting an approved thesis. Admission to the 2nd M.B. examn. is conditnl. on proof of diligent attendance on prescribed courses of lectures and practical work. Admission to the 3rd M.B. is conditnl. on proof of 3 yrs. of hospl. practice, 5 yrs.' Med. study, and diligent attendance on prescribed courses of instruction and practical work. A M.B. in the 9th term after *inauguration* or *admission* (v. *supra*) and a M.A. in the 12th after *creation* or *admission* may be admitted M.D. on submission of a thesis or dissertation, but the M.A. must have attended lectures and hospl. practice and passed examns. as required for the M.B. A candidate for the M.Chir. Degree must pass an examn. to which, if Master of Arts, he may be admitted after he has become legally qualified to practise Surgery. A candidate who is not a Master of Arts may be admitted to the examn. 2 years after completing all the requirements for the B.Chir. Degree; but 3 years must have elapsed since he was inaugurated or admitted B.Chir. before admission to the M.Chir. Degree. Addenbrooke's Hospl., containing over 200 beds and large out-patient depts., is available for clinics. Overseas examns. exempting from the 1st M.B.: 1st examn. for B.Sc. in Agr. of Univ. of S. Africa (subject for subject); 1st examn. for med. degrees in Univ. of Adel., Melb., or Syd., or 1st examn. in Science in Physics, Chem., and Biol. in Univ. of Queensland, W. Aust., or Tasm.

**MUSIC.** The qualifications for the Mus.B. include (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous examn.*; (iii.) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term. The Mus.M. may be taken after at least 3 yrs. have elapsed since *inauguration* (v. *supra*) or *admission* as Mus.B. and after passing the prescribed examn.

Persons not less than thirty years of age who have graduated in some Faculty of the Univ. and given proofs of distinction in musical composition may be candidates for the Mus.D.

The Sc.D. and Litt.D. Any person may be a candidate for either degree who is a M.A., LL.M., M.Chir., M.Sc., M.Litt., or Ph.D. of not less than 5 yrs.' standing or a M.B. of not less than 7. These degrees are granted in consideration of original contributions to the advancement of Science or Learning.

**DIPLOMAS.** In addition to degrees, which are for the most part conferred only on its own members, the Univ. grants 5 Diplomas which are open to other persons—in Geog., in Pub. Health, in Med. Radiology and Electrology, in Hygiene, in Tropical Med. and Hygiene; and 6 which are almost entirely restricted to members of the Univ.—Agric. Sc., Anthropol., Architect., Class. Archæol., Education, Forestry, and Oriental Langs., the diplomas in Anthropol. and Orient. Langs. being open to non-members in certain exceptional circumstances only. *Certificates* of competent knowledge of certain foreign langs., open to members of the Univ. only, are awarded. A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures.

The *Joint Coal-mining Diploma* of the Univs. of Cambridge and Birmingham enables Cambridge graduates in Engineering to shorten by one year the period of training at Birmingham otherwise required. It is approved by the Board of Trade.

The Diploma in Anthropology may be obtained after residence for one term only by *Officers of any of the Public Services of the Empire*, not ordinarily resident in the British Isles, having exceptional qualifications.

The Diploma in Hygiene, established in 1921 in response to a communication from the League of Red Cross Societies at Geneva, is intended for *foreigners* who possess a qualification to practise medicine or surgery which, though not registrable in Great Britain, is recognized by the authorities of their own countries. The full course must extend over 9 months. The requirements are similar to those demanded for the English D.P.H. except that no detailed knowledge of English public health laws is required.

The Univ. makes provision for training candidates for the Higher Civil Services; Probationary Vice Consuls; Indian Civil Service selected candidates; candidates for administrative appointments in Tropical Africa and other branches of the Civil Service, and candidates for service under the Govt. of the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of I.C.S. Studies, and by a Committee of Associated Colls. Detailed information may be obtained from the Director of Civil Service Studies, appointed by this Committee (C. J. B. Gaskoin, M.A., Fitzwilliam House), and from H. A. Roberts, M.A., Univ. Offices, St. Andrew's St., who is Secy. to the Board of I.C.S. Studies, Foreign Service Students' Committee, and Appointments Board.

A system of MILITARY INSTRUCTION has also been organized by the Univ. The Board of Milit. Studies (Secy.—Lt.-Col. G. J. Hornsby Wright, D.S.O., M.A. Emm.) are in direct communication with the War Office and responsible for the nomination of Camb. Univ. candidates for Regular commissions in H.M. Forces. See Appendix I.

**AVIATION.** Official recognition has also been given to the University Air Squadron. The Squadron, membership of which is strictly limited, is primarily a technical organization affiliated to the University and under the direction of the Air Ministry; but practical flying instruction is also given to members. See Appendix I. Other students, with the permission of their parents or guardians and also of their Tutors, are permitted to fly, under certain restrictions, as members of a Civil Flying Club.

The **TRAINING OF TEACHERS** is under the management of the Teachers' Training *Syndicate*, established in 1878 (Secy.—F. E. E. Harvey, M.A.; address—Warkworth House).

Examns. for the *Certificate of Proficiency*, held in June and Dec., are open to students of certain colleges, and to graduate teachers who have had at least a year's experience in an approved Secondary School, if their attainments are satisfactory.

Students of the *University Training College* (Principal—C. Fox, M.A. Chr.; address—Warkworth House) devote their first 3 yrs. to reading for the B.A. degree, the 4th to professional training. Several scholarships are offered to intending schoolmasters who have been Bursars or Student Teachers. Students who have not previously been attached to the college may also take a post-graduate course of training.

There is also the *Cambridge Training College for Women* (Post-graduate). Principal—Miss M. H. Wood, M.A. Camb., Litt.D. Dub.

Cambridge graduates are trained for **HOLY ORDERS** at Ridley Hall, founded in 1879 (Principal—Rev. J. P. S. R. Gibson, M.A., F.I.A. Sid. Suss.); or at the Clergy Training School, Westcott House, founded in 1881 (Principal—Rev. Canon B. K. Cunningham, O.B.E., M.A. Trin., Church of England). Other theological colleges recognized by the Univ. as Houses of Residence for students: the Westminster Coll., founded 1844 (Principal—Rev. J. Oman, M.A. Qu., D.Phil., and D.D. Edin. and Ox., Presbyterian); Cheshunt Coll., founded 1768 (President—Rev. S. Cave, D.D. Lond., mainly Congregational); St. Edmund's House, founded in 1896 (Principal—Rev. J. F. McNulty, M.A. Chr., Roman Catholic); and Wesley House, founded 1924 (Principal—Rev. H. M. Hughes, M.A. Jes., D.D. Lond.). Cheshunt and Westminster Colleges were moved from Cheshunt and London in 1905 and 1899 respectively.

**RESEARCH STUDENTS.** Each application for admission must be made to the Secretary, and accompanied by (i.) a diploma or other certif. of graduation at a Univ.; (ii.) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments, and previous study; (iii.) a statement of the degree, if any, for which the applicant wishes to be a candidate; (iv.) a certif. or declaration of the applicant's age at the date of application. In exceptional cases requirement No. (i.) may be dispensed with. The application is not granted unless it appears (a) that the course of research can conveniently be pursued within the Univ., and (b) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course. Before admission he is required to become a member of a College, or a Non-Collegiate student.

Secretary of the Board of Research Studies: R. E. Priestley, M.A. Clare.

A Research student pursues his course under direction and supervision, prescribed by the Degree Committee of the Faculty concerned. If he should wish to obtain a degree elsewhere he may, after he has pursued his studies in the Univ. for not less than 2 terms with regularity and industry, receive a *Certificate* to that effect signed by his supervisor and by the V.C. After a course extending over 2 yrs. and residence in the Univ. for at least 6 terms (Cambridge graduates, 3 terms) after admission as research students, the M.Sc. or M.Litt. may be obtained. For the Ph.D. (v. p. 18) 3 yrs. are ordinarily required. One year of the 3-yrs. course may be remitted if the applicant satisfies the Board of Research Studies that he or she has done at least a yr.'s satisfactory research work before admission to Cambridge Univ. For any degree six terms' residence is essential.

**UNIVERSITY SCHOLARSHIPS** open to graduates number about 57, and are

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 40 itinerant lecturers in various towns in different parts of England, including places so distant as Southport, Newcastle, Gt. Yarmouth, and Exeter, under a system initiated in Cambridge in 1873. The characteristic features of the method of teaching adopted are (i.) the Lecture presenting the subject in broad outline, (ii.) the Class, held for about an hour before or after the lecture, at which questions are given out by the lectr., (iii.) the essays written on these questions, and (iv.) the examination. The grades of certificates are : *Terminal*, awarded after a course of ordinarily 12 lectures ; *Terminal Certificate in Honours* implying distinction ; *Sessional*, for courses extending over not more than 2 yrs. and including at least 22 lectures ; the *Vice-Chancellor's*, awarded to students who obtain Terminal or Sessional certs. satisfying certain conditions and submit a satisfactory essay. A *Travelling Library* is provided for each course. The work is under the management of the BOARD OF EXTRA-MURAL STUDIES, on which there are, in addition to members of the Senate, representatives of the Local Centres Union and the Workers' Educational Assocn. 61 courses were held in 1928-29. Full particulars can be obtained from the Secy., G. F. Hickson, M.A., Stuart House, Cambridge.

THE SUMMER MEETING (University Extension) is held in Cambridge in alternate years. Number of students in 1929, 366 (men 157, women 209). In 1930 it will be held in Cambridge from July 25 to Aug. 14.

TUTORIAL CLASSES are arranged in connexion with the Workers' Educational Assocn. They are managed by a Committee appointed by the Board of Extra-mural Studies, including all the members of the Board nominated by the W.E.A. The Tutorial Classes Summer School is held every year for 3 or 4 weeks.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d. a copy, terminal subs. 2s. 6d., or by post 4s. 6d. ; *Ordinances*, 1927 (fresh editions every 3 or 4 yrs., *Supplementary Ordinances*, 1929, 2s. 6d.), 12s. 6d. ; *The Students' Handbook*, annually in July, 7s. 6d. ; *Facilities for Study and Research* ; *Compendium of Univ. Regns.*, 9d. ; *Statutes of the Univ. and Passages from Acts of Parlt.*, 5s. ; *Endowments of the Univ.*, 1904, 10s. 6d. ; *Alumni Cantabrigienses*, Ed. J. and J. A. Venn (to the year 1751, four volumes), £7 : 10s. each vol. ; *Matricns. and Degrees* (a list of all those who have entered the Univ. ; 1544-1659, 45s. ; 1851-1900, 15s. ; 1901-1912, 12s. 6d.) ; the *Calendar*, annually (Nov.), 15s. ; the *Historical Register*, 20s. ; *Historical Register Supplement*, 1911-20, 8s. 6d. ; *Index to Tripos Lists*, 1748-1910, 10s. ; *The War List of the Univ. of Cambridge*, 1914-18, 20s. ; *University Extension : a Survey of Fifty Years*, by J. W. H. Draper, 3s. 6d. ; *University Ceremonies*, by H. P. Stokes, 7s. 6d. ; *The Cambridge Pocket Diary*, annually in Oct., 2s. 6d., with pencil, 3s. 6d. These, and/or the books mentioned below, Mullinger's and Willis and Clark's, may be had from the Cambridge Univ. Press, Fetter Lane, London, E.C.4, and from all booksellers.

Histories, etc. : (a) *Annals of Cambridge*, by C. H. Cooper (5 vols.) ; (b) *The Univ. of Cambridge*, by J. B. Mullinger (3 vols. to the later 17th cent.) ; (c) *College Histories*—Robinson's Series, various authors ; Dent's Series—King's, St. John's, Trinity, 2s. each ; (d) *Cambridge and its Colleges*, A. Hamilton Thompson ; (e) *Cambridge*, T. D. Atkinson and J. W. Clark ; (f) *Architectural History of Cambridge*, R. Willis and J. W. Clark, 4 vols. ; (g) *The Charm of Cambridge*, by S. C. Roberts.

Magazines (uncolled) : The *Cambridge Review*, the *Granta*, the *Gownsmen*, the *New Cambridge*, weekly during term.

## RECENT LEGISLATION

The statutes of the Univ. and its constituent Colleges have recently been revised. In 1922 a Royal Commission for Oxford and Cambridge (appointed in 1919) published its report (Cmd. 1588), and in 1923 Parliament established a legislative Commission which was to give effect at Cambridge to the recommendations contained in this report. The statutes made by the Commission, under the chairmanship of Viscount Ullswater, having become operative in 1926, the summary given in the opening paragraphs of the above "General Information" of the principal features of the constitution of the Univ. takes their effect into account.

It will be seen that the legislative and executive functions formerly vested in the Senate (the constitution of which has not been greatly altered) are now exercised by a "Regent House" the composition of which is somewhat similar to that of the former Electoral Roll, the powers of the Senate in most matters being limited to a suspensory veto. The control over teaching appointments previously possessed by Colleges is shared by them with the University, the former retaining the duty of appointing Directors of Studies who superintend the weekly personal instruction of students, with correction of essays and the like. The fees hitherto paid to the Colleges for lectures are now payable to the University instead; moreover, in several subjects a composition fee has replaced separate fees. Women are eligible to University teaching posts, and therefore to membership of Boards of Faculties, and the Univ. has been enabled to throw scholarships and prizes open to the candidature of women unless the founder has expressly excluded women. The stipends attached to open college entrance scholarships have, as at Oxford, been put on an eleemosynary basis, though the winning of a scholarship will depend, as heretofore, entirely on merit. Admission to a degree is to be by a single act, and the ancient procedure by stages (designation and inauguration, inception and creation) is obsolete.

## THE YEAR 1928-29

**BENEFACTIONS.** International Education Board (founded by John D. Rockefeller, Junior), conditional benefaction of not more than £700,000 for the new Univ. Library and for developments in Agr., Biol., and Physics. In connexion with the above the following conditional gifts: Ministry of Agriculture and Fisheries, £50,000; Empire Marketing Board, £50,000; Royal Agricultural Soc. of Eng., £1000; and gifts or promises for the Library of £1000 each from The Cambridge Scientific Instrument Co., Mr. W. H. Buckler, and Mrs. Le Roy White; and of £50 from Mr. W. E. Heitland. Mr. J. H. Plummer (bequest), estimated to yield about £10,000 a yr., for professorships in certain scientific subjects. The Worshipful Company of Drapers, £1000 and £800 a yr. for ten yrs. for Drapers Professorships of Agr. and French respectively. The Worshipful Company of Goldsmiths, £500 a yr. when a new Reader in Metallurgy is appointed and pending the transfer of £10,000 as endowment for the Readership. Miss Gwyneth Pretty (bequest), about £5000 for path. research. Lady Sandys, surrender of capital sum bequeathed by the late Sir John Edwin Sandys. Sir D. L. Goldsmid-Stern-Salomons, Bt. (bequest), collection of scientific apparatus. Dr. Glaisher (bequest), mathematical books to Univ. Library; china and pottery, etc., and £10,000 for their care and preservation, to Fitzwilliam Museum. The late Prime Minister (from Lord Beaverbrook), £1000 to Fac. of Med. Miss A. M. V. Meek and Miss P. Meek (in fulfilment of the wishes of the late Mr. W. A. Meek, K.C.), £5000 for research. Mr. A. B. Wilson-Barkworth, LL.D. (bequest), for original MSS. and books for the Univ.

Library. Miss Anne Pertz (bequest), £1000 for works of art for Fitzwilliam Museum. Dept. of Sc. and Indust. Research, £1500 for liquid hydrogen plant at Magnetic Laboratory. Empire Marketing Board, £3000 for addnl. buildings for Dept. of Animal Path.

**BUILDINGS.** The extension of the Low Temperature Research Station is nearing completion, as are also extensions to the Pitt Press buildings and to the Fitzwilliam Museum.

**DEATHS.** 1928: G. H. Bryan, Hon. Fellow of Peterhouse, Oct. 13; Sir Hugh K. Anderson, Master of Gonville and Caius, Nov. 2; J. H. Flather, formerly Sec. of the Local Examns. and Lectures Syndicate, Nov. 3; J. W. L. Glaisher, Senr. Fellow of Trinity, Dec. 7; 1929: W. H. Duke, University Lectr. in Classics, Mar. 7; R. D. Hicks, Fellow of Trinity, Mar. 8; W. L. Mollison, Master of Clare, Mar. 10; W. H. Wheatcroft, Downing, Mar. 10; Sir G. G. Butler, Representative, May 2; D. L. Harris, Fellow of Downing, May 14; G. Birtwistle, Univ. Lectr. in Maths., May 21; E. M. Allen, Bursar and Fellow of Girton, May 30; A. Berry, Vice-Provost of King's, Aug. 15; T. J. I'A. Bromwich, sometime University Lectr. in Maths., Aug. 24; T. B. Wood, Drapers Prof. of Agric., Nov. 6.

**HONORARY DEGREES.** *LL.D.*—H.R.H. Gustaf Adolf, Crown Prince of Sweden; Rt. Hon. Baron Hardinge of Penshurst; Rt. Hon. Sir J. E. Kynaston Studd, Lord Mayor of London. *Litt.D.*—Eduard Norden, Prof. of Class. Philol. and Archæology, Berlin; J. D. Beazley, Lincoln Prof. of Class. Archæology and Art, Oxford. *Sc.D.*—Paul Langevin, Prof. of Physics at the Collège de France, Paris; Sir Frank Watson Dyson, Astronomer Royal. *M.A.*—Lt.-Col. H. Harrison, Lecturer in Hindi and Marathi for the Board of Indian Civil Service Studies; Abdu'l Qâdir Zâfir Efendi, Lecturer in Turkish for the Foreign Service Students Committee.

**APPOINTMENTS BOARD.** In 1928, 483 appointments were obtained on the introduction of the Board. These included: educational, 137; manufacturing and technical, 101; administrative posts in commerce and industry, 102; Government departments, mainly scientific, 15; colonial administrative, 65; agriculture and forestry, 31; Indian and Colonial Railways, P.W.D. and Survey, 11; journalism and publicity, 2; railway traffic, 7; article clerkships, 4; medical, 6; miscellaneous, 2.

**LOCAL EXAMNS.** were held in December 1928 at 355 centres, including 48 in India, 28 in Ceylon, 24 in Straits Settlements and Malay States, 3 in China, 18 in Africa, 20 in W. Indies, and others in Central and S. America, Bermuda, British Arabia, Fiji, Gibraltar, Iraq, Italy, Mauritius, Seychelles, and Switzerland. The number of candidates was 16,144. In July 1929 the examns. were held in 376 centres, of which 25 were overseas, and the number of candidates was 10,474.

**STUDENTS** (excluding 70 men and 19 women not members of the Univ.) whose homes are in the British Isles: men 4645, women 447; not in the British Isles but within the British Empire: m. 338, w. 22; in foreign countries, m. 192, w. 12. Total: full-time, 5745.

**RESEARCH STUDENTS**, June 1929, 309, of whom 122 were Cambridge graduates. Their distribution among the various fields of research was as follows: Aeronautics 1, Agr. 22, Anglo-Saxon 2, Anthropol. 4, Biochemistry 20, Botany 23, Classics 6, Divinity 2, Econ. 4, Eng. 13, English 17, Entomol. 1, Fine Arts 1, Geog. 1, Geol. 9, Hist. 23, Law 4, Maths. 32, Med. 1, Metall. 2, Mineral. 1, Mod. Langs. 12, Moral Sc. 6, Music 1, Organic Chem. 10, Oriental

Langs. 3, Parasitol. 3, Phys. Chem. 19, Physics 48, Physiol. 5, Psychol. 7, Zool. 6.

BOARD OF EXTRA-MURAL STUDIES. Local Lectures (Univ. Extension): 48 courses of 12 lectures, 13 of 6 lectures. Tutorial Classes: 5 first-yr., 7 second-yr., 8 third-yr., 2 fourth-yr., and 5 Preparatory Classes. The fourth Vacation Course for Foreign Students was held from July 26 to Aug. 20, and was attended by 366 persons, from 25 nationalities. A course on Geography was also held from July 31 to Aug. 20, and was attended by 78 students chiefly from the British Isles. In addition there was a new type called "Summer Session" in Hist. and Eng. Lit. which was held for 4 wks., July 23 to Aug. 20, and was attended by 120 persons; these were mostly from English-speaking countries overseas, including Australia, New Zealand, and Canada. The Tutorial Classes Summer School was held for 3 wks. in July and Aug., and was attended by 84 students. 14 extra-mural students were resident in Cambridge for the year (5 being no longer under the direction of the Board). The *Cambridge Bulletin of Extra-mural Studies* was published once, in the Michaelmas Term: a supplement containing a list of classes and courses was issued in the Lent Term.

Students attending Tutorial Classes: men 249, women 285; Local Lecture (Extension Courses), 6506.

DEGREES. D.D., 2; LL.D., 2; M.D., 15; Sc.D., 7; Litt.D., 2; B.D., 6; Ph.D., 40; M.Chir., 1; M.A., 726; LL.M., 3; M.Sc., 4; M.B., 57; B.Chir., 73; LL.B., 36; Mus.B., 5; B.A., 1404. Titles of Degrees conferred on Women during the academical year: Ph.D., 5; M.A., 127; M.B., 2; B.Chir., 5; B.A., 226; LL.B., 1.

# UNIVERSITY OF DURHAM

VISITOR—THE LORD BISHOP OF DURHAM.

CHANCELLOR—HIS GRACE THE DUKE OF NORTHUMBERLAND, K.G.,  
C.B.E., M.V.O., D.C.L.

VICE-CHANCELLOR—The Rev. CANON ELLERSHAW, M.A.

PRO-VICE-CHANCELLORS—Sir THOMAS OLIVER, D.L., M.A., M.D.,  
D.C.L., LL.D.; P. J. HEAWOOD, M.A.; Sir WILLIAM S. MARRIS,  
K.C.S.I., K.C.I.E., B.A. New Zeal., D.Litt.

DEANS OF FACULTIES—*Theology*: Rev. D. DAWSON-WALKER, D.D.;  
*Arts and Letters*: Rev. A. GUILLAUME, M.A.; *Medicine*: S.  
McDONALD, M.D.; *Science*: J. I. O. MASSON, D.Sc.; *Applied*  
*Science*: W. M. THORNTON, D.Eng.; *Music*: (To be appointed);  
*Commerce*: J. W. HARVEY, M.A.; *Law*: A. ROBINSON, D.C.L.

PROCTORS—Rev. E. G. PACE, M.A., D.D.; G. R. GOLDSBROUGH, D.Sc.,  
F.R.S.

REGISTRAR—H. G. THEODOSIUS, M.A., B. ès L., 38 North Bailey.

LIBRARIAN—E. V. STOCKS, M.A.

## AFFILIATED AND ASSOCIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass exams., and so qualify without coming to England for the B.A., M.A., B.D., D.D., B.C.L., and D.C.L. degrees:

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel; Visitor—The Lord Bishop of Barbados; Principal—Rev. J. C. Wippell, M.A., B.D.; Prof. of Theology—Rev. L. G. Ball, M.A.; Prof. of Classics—W. W. C. Dunlop, M.A.; Prof. of Medicine—F. W. Greaves, M.B.

FOURAH BAY COLLEGE, SIERRA LEONE. Founded in 1827 by the Church Missionary Society. In 1918 the Wesleyan Missionary Society became associated with the C.M.S. in the control of the College. Visitor—The Bishop of Sierra Leone; Deputy Visitors—The Chief Justice, the Colonial Secretary; Principal—J. L. C. Horstead, M.A.; Senior Tutor—T. S. Johnson, M.A., B.D.; 4 Tutors and 2 Occasional Lecturers.

B. The following associated Theological Colleges:

St. Aidan's; St. Andrew's (Oyo, Nigeria); St. Augustine's; the Bible Churchmen's Missionary College (Clifton); Burgh; Chichester; Dorchester; Edinburgh; Highbury; Jamaica; St. John's, Armidale, N.S.W.; Lichfield; Lincoln; Queen's (St. John's, Newfoundland); Salisbury; Selwyn (Dunedin); Warminster; Bishop Wilson School (Isle of Man); Queen's Coll., Birmingham.

Students may take in these Colleges courses extending over 3 years, which qualify for the Lic.Theol. Nine terms kept in one of these Colleges, after passing the matricn. examn., may be counted in lieu of 6 of the terms required for the B.A. degree in the case of a student who obtains the Lic.Theol.

## GENERAL INFORMATION

The Univ. was established by Act of Parliament in 1832 and reconstituted in two divisions in 1908. The College of Medicine, founded in 1832, became

associated with the Univ. first in 1852, and more closely, as "The University of Durham College of Medicine," in 1870. Armstrong College was founded in 1871 as the Durham College of Physical Science, and assumed its present name in 1904. The Vice-Chancellorship is held in rotation by a representative of the Durham Colleges, College of Medicine, and Armstrong College for 2 years.

The Univ. has no teaching staff apart from those of the Durham Colls., the Coll. of Medicine, and Armstrong Coll. The Council of the Durham Colleges, the Coll. of Medicine, and Armstrong Coll. have respectively full power and authority to regulate teaching and discipline, and to provide for the appointment of all their teachers and other officers.

**LIBRARIES.** See under the Colleges.

**MATRICULATION.** See Appendix XX.

**ADMISSION OF STUDENTS FROM OVERSEAS.** The matricn. examns. of Sydney and the S. African Univs. and degrees in Arts of all Univs. of the British Empire are accepted. See also Appendix XXI.

**DEGREES.** B.A., M.A., B.Litt. (obsolete), M.Litt., D.Litt.; B.Sc., M.Sc., D.Sc.; B.D., D.D.; B.C.L., D.C.L., LL.B.; M.B., B.S., M.D., M.S., D.Ch.; B.Hy., D.Hy.; B.D.S., M.D.S.; B.Mus., D.Mus.; B.Com., M.Com.; Ph.D.; M.Ed. (v. p. 17).

*Diplomas* in Foreign Langs., Arabic, Theol., Psychiatry, Teaching, Public Health; L.D.S., Lic.Theol.

The B.A., B.Sc., or B.Com. may be obtained by a 3 yrs.' undergraduate course. For the 1st yr. of the B.Sc. course equivalent study in another Univ., and for the 1st yr. of the B.Com. course 2 yrs.' attendance as an evening student, may be accepted. For the B.Mus. two public examns. must be passed.

For the M.B. and B.S. at least 1 of the 5 yrs. of Med. study must be spent in the Coll. at Newcastle. The B.Hy. is open to graduates in Med. who have spent 1 yr. in professional study at Newcastle. The B.D.S. course is one of 5 yrs.

The B.C.L. may be taken by examn. by a B.A. of 6 terms' standing. The LL.B. may be taken by a candidate of Intermediate grade in Arts or Science after a 3 yrs.' course.

The course for the Diploma in Teaching covers 3 terms after graduation.

The course for the Diploma in Arabic covers 3 terms.

The M.A. is open to a B.A. of 9 terms' standing who obtained 1st or 2nd Class Honours in the Final B.A. examn. or, after passing this examn., has passed the Dipl. Theol., B.D., B.C.L., M.B. or B.Sc., degree examn., or who qualifies by passing a special examn. The M.Litt. can be obtained by graduates in Arts or Commerce of Durham after at least 2 years' research under the direction of a member of the University Staff. The M.Sc. can be obtained by a B.Sc. of 2 yrs.' standing by original work or examn. The M.D.S. can be obtained by a B.D.S. of 2 yrs.' standing by thesis and practical dental work of high skill. The M.Ed. can be obtained without further residence by graduates of Durham or of an approved Univ. who hold the Dip. in the Theory and Practice of Teaching of Durham; by other graduates after a 2 yrs.' course of study *under direction*.

The D.Litt. or D.C.L. may be obtained by a B.A. (or B.Litt.) or B.C.L., respectively, of 10 yrs.' standing by a sufficient contribution to learning; the D.Sc. in the 7th year after admission to B.Sc.; the D.Mus. by a B.Mus. of 15 terms' standing.

For the M.D. a candidate must have had 2 yrs. of practice in a hospl. or Mily. or Naval service after graduation as M.B.

For the D.Ch. a candidate must have devoted 3 yrs. (including one at least

in the Univ. and 6 months at least abroad), subsequently to having obtained a registrable qualification, to the study of surgery and ancillary subjects.

For the D.Hy. 2 yrs.' experience of Pub. Health administration or research after obtaining the B.Hy. are necessary.

*M.D. Degree Examn. for Practitioners.* A person who has been registered by the Gen. Med. Council of the U.K. and in the active practice of his profession for 15 yrs. as a qualified practitioner and is not less than 40 yrs. of age may obtain the M.D. degree without fulfilling any conditions as to residence on passing an examn. instituted for this purpose by this Univ. and held in June and Dec. Candidates who have not passed previously to their professional examn. an examn. in Arts are required to pass an examn. in Classics and Maths. Natives of India are admissible if they bring evidence of having passed within the preceding year an examn. in Latin.

*Degrees, etc., in Theology.* The B.D. examn. is open to candidates who are graduates of a Univ. of the British Empire in Arts (or Letters) of 2 yrs.' standing; if of another Univ. they must have obtained the Dipl. Theol. of Durham. The Board of the Faculty may admit also non-graduates who keep 3 terms at Durham and pass the Dipl. examn. The Lic. in Theol. is open to members of the Church of England only. Nine terms must be kept at one of the Theol. Colls. in list B above. The Dipl. in Theol. is obtainable by graduates of a Univ. of the British Empire who keep 3 terms at Durham and pass the Dipl. examn. Residence for a year at an approved Australian Coll. may be accepted in lieu of keeping 3 terms at Durham. The D.D. is open to a B.D. of Durham who is a Master of Arts of 10 yrs.' standing on submission of a sufficient contribution to learning.

**FEES.** Matricn., £2. Examns. and degrees, £2 to £10 (Examns. for D.Ch., £20; D.Hy., £20; M.D. for practitioners, 50 gs.; Final for M.B., B.S., £15).

**PUBLICATIONS.** *Univ. Calendar* (Oct.), 2s. 6d.; *Durh. Univ. Gazette*, 4s., 4 times a year; *Durh. Univ. Journal* (oldest Univ. Mag. in England), once a term, 1s. 6d.

## THE YEAR 1928-29

**NEW DEVELOPMENTS.** Installation of His Grace the Duke of Northumberland, K.G., as Chancellor. Extensive addition to lecture room accommodation in the Durham Division and new building for the Mining Dept. erected at Armstrong Coll. and opened by the Prince of Wales in May 1929. Extension of Library space and Sub-librarian appointed in the Durham Division. Prof. L. W. Labaree of Yale Univ. appointed as visiting Carnegie Professor of International Relationships during the absence of the Prof. of History at Armstrong Coll. in India. Benefactions to Armstrong Coll. for Mining and Engineering Depts.

**HONORARY DEGREES.** *D.D.*—The Archbishop of York, Sir G. A. Smith. *D.C.L.*—The Duchess of Atholl, Mr. Stanley Baldwin, Lord Eustace Percy, Lord Ravensworth, Lord Melchett, Lord Moynihan, Sir J. R. Bradford. *D.Sc.*—Lord Rayleigh, Mr. C. T. Regan, Sir F. W. Dyson, R. S. Bagnall. *D.Litt.*—Mr. F. E. Adcock, Mr. C. Bailey. *M.A.*—A. M. Oliver, S. Pearson.

**DEGREES.** M.D., 9; D.Sc., 3; Ph.D., 2; M.A., 58; M.Sc., 16; M.Litt., 1; B.D., 2; M.B. and B.S., 28; B.A., 142; B.Sc., 97; B.Hy., 5; B.Mus., 8; B.Com., 6; L.Th., 16; Dip.Th., 10; D.Th.P.T., 109; D.P.H., 5; L.D.S., 2; D.D. (by vote of Convocation), 1.

**TUTORIAL CLASSES (W.E.A.) AND EXTENSION COURSES.** The total no. of Tutorial Classes was 58, of Extension Courses 17, of Preparatory Classes 11; districts served:—the counties of Durham, Northumberland, Cumberland and Westmorland, and the C.B. of Middlesbrough.

## DURHAM DIVISION

*President of Council*—J. S. G. PEMBERTON, M.A., D.C.L.

*Secretary of the Council*—J. L. BURCHNALL, M.A.

*Secretary of Examinations*—J. H. HOW, M.A.

*Prælector*—S. R. P. MOULSDALE, M.A., B.D.

*Treasurer*—F. W. RITSON, M.A.

*Librarian*—E. V. STOCKS, M.A.

## PROFESSORS AND LECTURERS

### *Archæological Research*

Simpson, F. G., M.A. Director.

### *Botany*

Griffiths, B. M., D.Sc. Birm.,  
F.L.S. Reader.

Higgins, Edith M., B.Sc. Lond.,  
Ph.D. Liv. Lectr.

### *Chemistry*

Masson, J. I. Orme, D.Sc. Melb.,  
F.I.C. Prof.

Christie, G. H., M.Sc., Ph.D. Sheff.  
Lectr.

Gibby, C. W., M.Sc., Ph.D. Lond.  
Lectr.

Waters, W. A., M.A., Ph.D. Camb.  
Lectr.

### *Classics*

Richards, G. C., M.A., D.D. Ox.  
(Greek and Class. Lit.) Prof.

How, J. H., M.A. Ox. (Latin) Prof.

Boden, J. P., M.A. Lectr.

Body, L. A., M.A. Camb. Lectr.

Donaldson, Rachel E. D., M.A.  
Ox. and Durh. Lectr.

Norman, R. T., M.A. Lond., B.A.  
Ox. Lectr.

Whitaker, A. P., M.A. Ox.

### *Divinity and Eccl. History*

Dawson-Walker, D., M.A., D.D.  
Ox. Prof.

### *Divinity*

Pace, E. G., M.A., D.D. Reader.

### *Economics and History*

Hood, F. C., M.A. Edin. Lectr.

### *Education and Psychology*

Robinson, A., M.A., D.C.L. Prof.

Rich, R. W., M.A. Lond.  
Lectr. (Ed.).

### *English Lang. and Lit.*

Ellershaw, H., M.A. Prof.

Colgrave, B., M.A. Camb. Lectr.

Ecclestone, A., B.A. Camb. Lectr.

### *Geography*

[Lectr.  
Manley, G., M.A., B.Sc. Camb.

### *Geology*

[Prof.

Holmes, A., D.Sc. Lond., F.G.S.

Hopkins, W., M.Sc., Ph.D. Lectr.

### *Hebrew and Oriental Langs.*

Guillaume, A., M.A. Ox. Prof.

### *History*

[Reader.

Whiting, C. E., M.A., D.D., B.C.L.

Braley, E. F., M.A., LL.M. Camb.

Lectr.

Dacombe, Marianne R., M.A. Ox.

Lectr.

Willatt, J. F., B.A. Camb. Lectr.

### *History, Ecclesiastical*

Wallis, C. S., M.A. Lectr.

### *Liturgiology*

[Lectr.

Moulsdale, S. R. P., M.A., B.D.

### *Mathematics*

Heawood, P. J., M.A. Ox. Prof.

Burchnall, J. L., M.A. Ox.

Lectr.

Baxter, E. F., M.A. Camb., M.Sc.

Lond. Lectr. (Applied M.).

*Military Science*

Lynden-Bell, L. A., M.C. Lectr.

*Modern Languages*

Herdener, C. F., M.A. (B.A. Lond.)

Houston, Gertrude A. C., M.A.  
Belf., Lond., and Durh.

Lectr. (German).

Scott, Ethel M., M.A. Lond.

Lectr. (French).

Dodds, Muriel, M.A. Camb., Doc.  
de l'Univ. Paris Lectr.

Vigour, M. Fr. Asst.

Rey, J. L. L. Fr. Asst.

Robinson, Audrey F., M.A.,  
A.R.C.M. Fr. Asste.

Gelin, H. Fr. Asste.

*Music*

Bairstow, E. C., D.Mus. Prof.

*Palæography*Falkner, J. M., M.A. Ox. and  
Durh. Hon. Reader.*Philosophy*

Jevons, F. B., M.A. Ox., D.Litt.

*Physics*Wagstaff, J. E. P., M.A., D.Sc.  
Camb. Prof.Chalmers, J. A., B.A. Camb., B.Sc.  
Lond. Lectr.Broadway, L. F., B.Sc. Bristol  
Lectr.*Psychology*, v. Educn.*Theology*, v. also Div.

Jarow, Bishop of, D.D.

Hon. Reader.

Coleman, N. D., M.A. Camb.

Lectr. in T. and Hellen-  
istic Greek.Carpenter, S. C., M.A., B.D.  
Camb. Lectr. in Pastoral T.

## University Extension

25 Tutors and Lecturers were  
employed, of whom 6 were  
members of the University  
Staff. Secy. to the Joint  
Committee: Rev. Dr. Pace.  
Organizing Secy. of N.E. Dis-  
trict of W.E.A.: Alderman  
W. N. Smith.

## THE DURHAM COLLEGES

UNIVERSITY. Master—H. Ellershaw, M.A. Censor—A. Guillaume, M.A.  
Bursar—A. A. Macfarlane-Grieve, M.A. Chaplain—N. D. Coleman, M.A.HATFIELD. Master—A. Robinson, M.A., D.C.L. Vice-Master and Chap-  
lain—E. G. Pace, M.A., D.D. Tutor in English—B. Colgrave, M.A. Censor—  
C. F. Herdener, M.A. Bursar—A. A. Macfarlane-Grieve, M.A.ST. CHAD'S. Principal and Chaplain—S. R. P. Mouldsdales, M.A., B.D.  
Vice-Principal—C. E. Whiting, M.A., D.D., B.C.L. Classical Lectr.—L. A.  
Body, M.A. Fellow, Tutor, and Bursar—J. P. Boden, M.A. Junior Tutor—  
C. I. Pettitt, B.A.ST. JOHN'S. Principal—C. S. Wallis, M.A. Chaplain—E. W. P. Ains-  
worth, M.A. Bursar—W. H. A. Learoyd, B.A. Classical Lectr.—O. W.  
Whaley, M.A. Lectr. in Hebrew—N. D. Coleman, M.A. Elocution Teacher—  
A. D. Culley, M.A., Mus.B.ST. MARY'S (for women). Principal—Rachel E. D. Donaldson, M.A.; Senior  
Tutor and Censor—Marianne R. Dacombe, M.A. Junior Tutor and Secretary  
—Helen Dixon, B.A. Domestic Bursar—Amy D. Johns.

\*BEDE (Training College for men). Principal—E. F. Braley, M.A., LL.M.

\* Colleges under the Board of Education licensed by the Council of  
Durham Colleges as places of residence for students reading for degrees in  
the Durham Division of the University.

Vice-Principal—R. R. Kimbell, M.A., Mus.Bac. Lectrs.—J. Wall, M.A.; J. F. Willatt, B.A.; B. Colgrave, M.A.; E. F. Baxter, M.Sc.; L. T. Crawhall, B.A.; M.R.C.S.; C. R. Wheatley; C. S. Axon; D. E. Webster; W. J. Ingram.

\***ST. HILD'S** (Training College for women). Principal—Eleanor C. Christopher, M.A. Lectrs.—Winifred Hindmarch, M.Litt.; Jean Templeton, M.A.; Barbara McRae, B.A.; Gladys Hinde, B.A.; Lucy Wilkes, B.A.; Sylvia Blackham.

\***NEVILLE'S CROSS** (Training College for women). Principal—Zeta G. D. May, M.A. Lectrs.—Mary Benson, M.A., B.Sc.; Marjorie C. Haywood, M.A.; Winifred M. A. Lomas, B.Sc.; Netty M. Lunan, M.A.; Dorothy Price, M.A.; Agnes Bibby, L.R.A.M.; Agnes I. Cramp; Ethel B. Row.

NON-COLLEGIATE STUDENTS. Censor—N. D. Coleman, M.A.

HOME STUDENTS (Women). Censor—Gertrude A. C. Houston, M.A.

## GENERAL INFORMATION

For early history, see *Year Book* for 1929.

**LIBRARY**, 41,000 vols., 157 incunabula; including rare theological and patristic books. Separate Science Library in the Department of Science. **OBSERVATORY** with almucantar, seismograph, etc.

**MATRICULATION.** See Appendix XX.

**FEES.** Including admission, tuition, exams., board and lodging, subscriptions and gratuities, at Univ. College, £115 p.a.; Hatfield, £106; St. Chad's, £111; St. John's, £110; St. Mary's, £111; St. Hild's, £50-£60; Neville's Cross, £45. Non-Coll. students pay £30 p.a. in Arts, £36 p.a. in Science, Univ. fees including club subscriptions; average cost of board and lodging per term £14 to £24.

**FELLOWSHIPS.** 3 Tutorial, £200 to £300, and 1 ordinary, £200, open only to candidates who have kept terms and taken B.A. in Durham Division.

## THE YEAR 1928-29

**DEVELOPMENTS.** New block of Lecture Rooms completed. Extensive alterations to existing Lecture Rooms. Extension of Library. Additional lecturer in Classics and Sub-librarian appointed.

**RESIGNATIONS.** Miss K. Lambley (French). Mr. L. Bastings (Physics).

**STUDENTS.** Full-time, 449; part-time, 2.

**DEGREES OBTAINED.** D.Mus., 1; M.A., 39; B.A., 94; B.Sc., 23; B.Mus., 8; L.Th., 16; Dip.Th., 8; D.Th.P.T., 34.

\* Colleges under the Board of Education licensed by the Council of Durham Colleges as places of residence for students reading for degrees in the Durham Division of the University.

# COLLEGE OF MEDICINE, NEWCASTLE-UPON-TYNE

*Chairman of the Court of Governors*—R. G. E. MORTIMER, M.A.

*President of the College, Vice-Chairman of the Court of Governors and Chairman of Council*—SIR THOMAS OLIVER, D.L., M.A., D.C.L., M.D., LL.D., D.Sc., F.R.C.P.

*Vice-Chairman of Council and Registrar*—SIR ROBERT BOLAM, O.B.E., M.D., LL.D., F.R.C.P.

*Treasurer*—SIR JOSEPH REED.

*Dean of the College*—STUART McDONALD, M.A., M.D., F.R.C.P.E., F.R.S.E.

*Secretary of Examinations*—D. BURNS, M.A., D.Sc. Glas.

*Curator of Museum*—W. E. M. WARDILL, M.B., B.S., F.R.C.S.

## PROFESSORS, LECTURERS, ETC.

<i>Anæsthetics</i>		<i>Dermatology, Clinical, and Venereal Diseases</i>	
Tate, E., M.D., B.S.	Tutor.	Bolam, Sir Robert, O.B.E., M.D., LL.D., F.R.C.P.	Lectr.
<i>Anatomy</i>		Thompson, S., M.B., B.S.	Asst.
Green, R. B., M.A., M.B., B.S. Lond., F.R.C.S.	Prof.	<i>Hygiene, v. Pub. Health</i>	
Whillis, J., M.B., M.S.	Demr.	<i>Laryngology, Otology, and Rhinology, Clinical</i>	
Lectrs. in Appl. A.:		Whillis, S. S., M.D., B.S.	Lectr.
Lickley, J. D., M.D. Glas.		Wilson, W. F., M.B., B.S.	Asst.
.....		<i>Materia Medica and Pharmacology</i>	
<i>Bacteriology, v. Path. Comp.</i>		Hall, G., C.M.G., M.D., B.Sc., F.R.C.P.	Lectr.
<i>Biology</i>		<i>Electrotherapeutics</i> [Lectr.]	
Harrison, J. W. H., D.Sc., F.R.S.E. (Botany) Prof.*		Gamlen, H. E., M.B., B.S., D.P.H.	
Meek, A., D.Sc., F.Z.S. (Zool.) Prof.*		Davidson, S. W., M.D., B.S.	Asst.
<i>Chemistry, Organic</i>		<i>Medical Jurisprudence</i>	
Clemon, G. R., Ph.D., D.Sc. Lond., D.Phil. Ox., F.I.C.	Prof.*	Natras, F. J., M.D., B.S., M.R.C.P.	Lectr.
<i>Chemistry, Inorganic</i>		<i>Medicine, Principles and Practice</i>	
Briscoe, H. V. A., D.Sc. Lond., A.R.C.Sc., D.I.C.	Prof.*	Beattie, T., M.D., F.R.C.P.	Prof.
<i>Children, Diseases of</i>		Hume, W. E., C.M.G., M.A., M.D., B.C., F.R.C.P. (and Clin. M.).	Lectr.
Ogden, O. W., M.D.	Lectr.		
<i>Dental Science, v. infra</i>			

\* Also in Armstrong Coll.

# DURHAM: COLLEGE OF MEDICINE, NEWCASTLE 73

## *Medicine, Clinical*

Lectrs. :

Hume, W. E. (v. Med. Princ. and Prac.).

Drummond, H., M.D., B.S.

Parkin, A. (v. Therapeutics).

Hall, G. (v. Mat. Med.).

Patterson, D. W., O.B.E., M.B., B.S., M.R.C.P.

Hunter, T. C., M.D., B.S.

Nattrass, F. J. (v. Med. Juris.).

Spence, J. C., M.D., M.R.C.P.

Tutors :

Armstrong, C. N., M.B., B.S., B.Hy., D.P.H., M.R.C.P.

Ogilvie, A. G., M.B., B.S., M.R.C.P.

Blench, T. H., M.D., B.S.

Ungley, C. C., M.D., B.S., M.R.C.P.

## *Midwifery and Gynæcology*

Lyle, R. P. R., M.A., M.D. Dub. and Durh., B.Ch., B.A.O. Dub.

Murray, E. F., M.D. St. And., F.R.C.S.

Lectr. & Clin. Lectr.

Lectrs. in Clinical M. :

Ruxton, W. L., M.B., C.M.

Campbell, L. Mabel R., M.A., M.B., Ch.B.

Evers, H. Harvey, M.B., M.S., F.R.C.S.

Weeks, L. M., M.A., M.D., B.Ch.

## *Ophthalmology*

[Prof.

Wardale, J. D., M.A., M.B., B.S.

## *Ophthalmology, Clinical*

Arkle, J. S., M.B., B.S. Lectr.

Robson, S., M.D., M.S., F.R.C.S.E. Lectr.

## *Pathology and Clin. Path.*

McDonald, S., M.D. Edin., M.A.

Shaw, A. F. B., B.A., M.D. Dub., D.P.H. Lectr.

Stephenson, G. E., M.C., B.Sc., M.B., B.S. Demr.

.....

Demr.

Spence, J. C. (v. Clin. Med.)

Demr. (Medical Path.).

Wardill, W. E. M., M.B., B.S., F.R.C.S.

Demr. (Surgical Path.)

Murray, E. F. (v. Midw.)

Demr. (Gynæc. Path.).

## *Pathology, Comp., and Bacteriology*

Hutchens, H. J., D.S.O., D.P.H.

Ox., M.A. Heath Prof.

Iredale, J. L. G., M.B., Ch.B., D.P.H. Demr.

Warren, S. H., M.R.C.S., L.R.C.P., D.P.H.

Director of Routine Laboratory.

Norton, R., M.B., Ch.B., D.P.H. Asst.

## *Physics*

Curtis, W. E., D.Sc. Lond., A.R.C.S. Prof.\*

Todd, G. W., M.A. Cantab., D.Sc. Birm. Prof.\*

## *Physiology*

[Prof.

Burns, David, M.A., D.Sc. Glas.

Secker, J., M.Sc. Lectr.

Saunders, J. A., M.Sc. Demr.

..... Demr.

## *Psychological Medicine*

MacPhail, H. D., O.B.E., M.A., M.D. Lectr.

## *Public Health*

Kerr, H., O.B.E., M.A., M.D., Ch.B. Edin., D.P.H. Prof.

## *Surgery*

Turner, G. G., M.B., M.S., F.R.C.S., F.A.C.S. (and in Clin. S.)

Prof.

Clay, J., C.B.E., M.B., B.S., F.R.C.S. Lectr.

## *Clinical Lectrs. :*

Willan, R. J., M.V.O., M.B., M.S., F.R.C.S.

Also in Armstrong Coll.

Pybus, F. C., M.B., M.S.,  
F.R.C.S.

Johnston, H. M., B.A., M.B. Belf.,  
F.R.C.S.

Barclay, J. H., M.D., M.S.,  
F.R.C.S.

Hodgson, N., M.B., M.S., F.R.C.S.

Hindmarsh, T. A., M.B., M.S.,  
F.R.C.S.

Gilmour, J., M.B., M.S., F.R.C.S.

Whyte, A. H., M.B., M.S., F.R.C.S.

Hewitson, W. A., M.B., B.S. Lond.,  
M.B., B.S. Durh., F.R.C.S.

2 vacancies

### *Therapeutics*

Parkin, A., M.D., M.R.C.P.,  
F.R.C.S.

### *Zoology, v. Biol.*

### Dental Science

Lectrs. :

Laing, A. M., L.D.S. (D. Anat.  
and Physiol., Microscopy and  
Histology).

Daniels, J. W., L.D.S. Edin. (D.  
Mechanics).

Lotinga, C., L.D.S. (D. Metallurgy).

Coltman, J., L.D.S. (D. Surg. and  
Path.).

Hutson, W., L.D.S. (Op. D. Surg.).

Cooper, E. R., L.D.S. Edin.  
(Orthodontics).

Seymour, W., M.B., B.S. (D.  
Anæsthetics).

Davis, H., L.D.S. (D. Mat. Med.  
and Therap.).

7 Hon. D. Surgeons, 19 Hon.  
Asst. D. Surgeons, 2 Anæ-  
sthetists, 1 Hon. Radiographer.

Mallett, R. H., L.D.S.

Tutorial D. Surgeon.

## GENERAL INFORMATION

Instruction in Clinical Medicine and Surgery is given in the Royal Victoria Infirmary (560 beds) and other hospitals; in Practical Midwifery and Clinical Gynæcology at the Princess Mary Maternity Hospital. The Pathological Museum provides an exceptional collection of specimens prepared by modern methods. Post-graduate teaching is supervised by a committee representing the College and the hospitals. Research facilities are available in the various departments.

**LIBRARIES.** An annual contribution is made to the new Library at Armstrong College. In the medical section of the Armstrong College Library available for students of the College of Medicine there are over 14,000 volumes. Departmental libraries, 698 volumes.

**MUSEUMS.** Anat., Hygiene, Mat. Med., Path.

**MATRICULATION.** See Appendix XX.

**SCHOLARSHIPS** open to undergraduate students of the College vary from £20 to £48 p.a.; open to graduates, £200 every second year and £180 every third year.

**FEES.** *For tuition:* M.B., B.S. (5 years' course), £240:14:6; L.D.S. (4 years' course), £187:7s.; B.D.S. (5 years' course), £205:7s. (in each case including all hospital fees and subscriptions to Students' Union). *For examinations:* Pre-Registration, £3:3s.; M.B., B.S., £30; M.D., £5; M.S., £5; D.Ch., £20; B.Hy., £10:10s.; D.P.H., £10:10s.; D.Hy., £20; D.Psy., £10:10s.; M.D. (for practitioners), £52:10s., including fee for degree; L.D.S., £15:10s.; B.D.S., £23; M.D.S., £5. *For degrees:* M.B., £6:6s.\*; B.S., £6:6s.; M.D., £10; M.S., £6:6s.; D.Ch., £10; B.Hy., £6:6s.\*; D.P.H., £3; D.Hy., £10; D.Psy., £3; L.D.S., £3; B.D.S., £6:6s.\*; M.D.S., £6:6s.; Ph.D., £5\*. (When a degree marked \* is an initial degree at the University the sum of 10s. is added.)

THE YEAR 1928-29

NEW DEPARTMENTS AND POSTS. 4 whole-time Med. Tutors, 2 part-time Surg. Tutors.

VISITS OF TEACHERS. Sir Thomas Oliver gave two lectures on medical industrial problems at the Univ. of Liège on invitation of the Belgian Government. Prof. Grey Turner took charge of Professorial Unit in Surg. at St. Bartholomew's Hosp. for a fortnight in June 1929.

STUDENTS. Full-time: 266, including 5 graduates. Part-time, 98, including 95 graduates.

DEGREES AND DIPLOMAS: M.D., 9; B.Hy., 5; M.B., B.S., 28; D.P.H., 5; L.D.S., 2.

# ARMSTRONG COLLEGE, NEWCASTLE-UPON-TYNE

*President of the College*—Rt. Hon. VISCOUNT GREY OF FALLODON, K.G., P.C., D.C.L.

*Chairman of Council*—CECIL A. COCHRANE, M.A., D.C.L., J.P.

*Vice-Chairman of Council*—Sir W. J. NOBLE, Bart.

*Principal*—Sir WILLIAM S. MARRIS, K.C.S.I., K.C.I.E., B.A. New Zeal., D.Litt.

*Registrar and Secy. of Examinations*—J. Y. T. GREIG, M.A., D.Litt. Glas.

*Bursar*—R. N. WILKINSON.

*Librarian*—F. BRADSHAW, M.A. Ox. and Durh., D.Sc. Lond.

## PROFESSORS, LECTURERS, ETC.

### *Accounting*

Bell, Albert, F.C.A. Lectr.  
Allan, T. K., A.C.A. Asst. Lectr.

### *Agriculture and Rural Economy,* v. also Forestry, Vet. Sc., Dairy Bact.

Heigham, C., M.A. Camb. Prof.  
Wheldon, R. W., D.Sc. Lectr.  
Pawson, H. C. Lectr.  
Adam, D. T., B.Sc. Aberd. (Land  
Surv., etc.) Lectr.  
Westwater, C. H., M.A., B.Sc.  
Glas. Lectr.

### *Agricultural Botany*

Harrison, Miss H. H., M.Sc. Lectr.

### *Agricultural Chemistry*

Thomas, B., M.Sc. Adviser.  
Hall, A. A., M.Sc. Liv. and Manc.  
and Durh., Ph.D. Jena, F.I.C.  
Lectr.

### *Agricultural Economics*

Dinsdale, D. H., M.A. Adviser.

### *Agricultural Mycology*

Bennett, F. T., B.Sc., Ph.D. Lond.  
Adviser.

### *Agricultural Zoology*

Gray, R. A. H., M.A., B.Sc. Aberd.,  
M.Sc. Adviser.  
Morrison, L., B.Sc. Aberd. Lectr.

### *Archæology*

Simpson, G., M.A. Durh.  
Hon. Dir. of Field Studies.

### *Art* (School of Fine Arts)

Dickey, E. M. O'R., M.A. Camb.  
Prof. and Dir. of School.  
Bullock, R., M.A.  
Master of Painting and  
Asst. Dir.  
Bertram, R. J. S., M.A. (Design).  
Maryon, H. J., Assoc. Univ. Read.  
(Sculpture).  
Cordingley, R. A., M.A.,  
F.R.I.B.A. (Archit.).  
Heslop, A., M.A. (Engraving).  
Lall, Mrs. D. M., B.A. Birm. (Art  
Teaching).  
Willis, Miss R. (Crafts).  
Thomson, Miss M. (Pottery).  
7 Assts.

### *Botany*, v. also Agric.

Harrison, J. W. H., D.Sc., F.R.S.  
Prof. and Reader in  
Genetics.  
Blackburn, Miss K. B., D.Sc.  
Lond., F.L.S. Lectr.  
Bartlett, A. W., M.A. Camb., B.Sc.  
Lond., M.Sc., F.L.S. Lectr.  
Thomas, Meirion, M.A. Camb. Lectr.

*Chemistry, v. also Agr.*

Briscoe, H. V. A., D.Sc. Lond.,  
M.Sc., A.R.C.Sc., D.I.C.

Prof. (Inorg. and Physi-  
cal C.) and Dir. of Dept.

Clemon, G. R., Ph.D., D.Sc. Lond.,  
D.Phil. Ox. Prof. (Organic C.).

Madgin, W. M., M.Sc. Lectr.

Robinson, P. L., D.Sc. Lectr.

Mallen, Miss C. E., M.A. Camb.

Lectr.

Leitch, Miss G. C., M.A., B.Sc.,

Ph.D. St. And. Lectr.

Haworth, R. D., M.Sc., Ph.D.

Manc. Lectr.

Sayce, L. A., M.Sc., Ph.D. Lectr.

Raper, R., M.A., Ph.D. Camb. "

*Classics and Ancient History*

Duff, J. Wight, M.A. Aberd. and  
Ox., D.Litt. Ox. and Durh.,

LL.D. Aberd. Prof.

Shipley, Miss C. M., M.A. Lectr.

Whittick, G. C., M.A. Ox. Lectr.

Edwards, A. C., B.A. Birm. Lectr.

*Crystallography and Mineralogy*

Fletcher, Rev. M., M.A. Camb. and

Durh., M.Sc., F.G.S. Lectr.

*Dairy Bacteriology* [Adviser.

Henderson, D. W., B.Sc. Glas.

*Economics, v. also Accounting,  
Law*

Hallsworth, H. M., O.B.E., M.A.

Manc., M.Com. D. Dale Prof.

Allen, E., M.A. Lectr.

McCallum, E. D., M.A. Glas. "

Highton, H. E. R., M.A. Glas. "

*Education*

Smith, Frank, M.A. Camb., B.Sc.

Manc., Ph.D. Wales Prof.

Melville, Ellen L., M.A. Leeds

and Durh. Lectr.

Brown, V., O.B.E., M.Sc. Lectr.

Bailes, Stella, B.Sc. Lectr.

Jeffreys, M. V. C., M.A. Ox. Lectr.

Hawthorn, Miss C. M., M.A., B.Sc.,

Durh.

Warden of Women's Hostel.

*Engin., Mechanical, Marine and  
Civil, v. also Nav. Arch.*

Hawkes, C. J., M.Sc., M.I.N.A.,  
M.I.Mech.E., R.N. (retd.)

Prof.

Morrow, J., T.D., M.Sc. Manc. and

Durh., D.Eng. Liv. Reader.

Hardy, G. F., M.Sc. Lectr.

Hall, J., M.Sc. Lectr.

Dixon, J. T. H., M.Sc. Lectr.

Martin, H. E. L., B.Sc. Bris. and

Lond. Lectr.

Talbott, A. C., M.Sc. Birm. Lectr.

Boulton, N. S., M.Sc. Birm. Lectr.

*Engineering, Electrical*

Thornton, W. M., O.B.E., D.Sc.

Manc., Liv., and Durh.,

D.Eng. Liv. Prof.

Dickinson, J., M.A. Ox., M.Eng.

Sheff. Lectr.

Wilcken, J. A., B.Sc. Copenhagen

and Lond., Ph.D. La Plata

Lectr.

*English*

Renwick, W. L., M.A., D.Litt.

Glas., B.Litt. Ox.

J. Cowen Prof.

Wragge, Sybil, M.A. Lectr.

Elmes, R. S., M.A. Camb. Lectr.

Orton, H., M.A., B.Litt. Ox.

Lectr.

*French, v. Modern Langs.*

*Geography*

Daysh, G. H. J., B.Litt. Lectr.

*Geology, v. also Cryst.*

Hickling, H. G. A., D.Sc. Manc.,

M.Sc. J. B. Simpson Prof.

Mockler, G. S., B.Sc. Manc. Lectr.

Raistrick, A., M.Sc., Ph.D. Lectr.

Tomkeieff, Serge Lectr.

*History, Modern*

[Prof.

Morison, J. L., M.A., D.Litt. Glas.

Labaree, L. W., Ph.D.

Visiting Carnegie Prof.

Bradshaw, F., M.A. Ox. and Durh.,

D.Sc. Lond. Lectr.

Farmer, Miss O. G., M.A., LL.B.

Lectr.

Cobban, A. B. C., M.A., Ph.D.  
Camb. Lectr.

*History, Ancient, v. Classics*

*Law*

Johnston, T. K., M.A., LL.M.  
Camb. Lectr.

Charlesworth, J., LL.D. Lond.,  
Bar-at-Law Asst. Lectr.

*Mathematics*

Havelock, T. H., M.A. Camb.,  
D.Sc., F.R.S.

Prof. and Director of  
Dept.

Goldsbrough, G. R., D.Sc., F.R.S.  
Prof. and Reader (Dyna-  
mical Astron.).

Caunt, G. W., M.A. Camb., M.Sc.  
Reader.

Colborne, D. C., M.A. Camb. Lectr.

Miles, W. H., B.A. Ox. Lectr.

Mulholland, H. P., B.A. Camb.  
Lectr.

*Metallurgy*

Smythe, J. A., D.Sc. Durh., Ph.D.  
Gott. Wm. Cochrane Lectr.

Pearson, C. E., M.Met. Sheff. "

*Military Science* [Lectr.

Bell, Capt. L. A. Lynden, M.C.

*Mining* [Milburn Prof.

Poole, Granville, B.Sc. Birm.

Whetton, J. T., M.C., M.Sc. Leeds  
Lectr.

Wedgwood, A., B.Sc. Lectr.

Mason, G. A., M.B., B.S.  
Lectr. in *First Aid*.

*Modern Languages*

Girdlestone, C. M., M.A. Camb.,  
L. ès L. Paris

Prof. of French and  
Director of Dept.

Lectrs. :

Macgregor, Lillas, M.A. Edin., D.  
de l'U. Gren. (Fr. and Ger.)

Vallette, Jean, L. ès L. Paris (Fr.)

Tomlinson, Mme.

Atkinson, W., M.A. Belf.  
(Spanish).

Cunningham, Kathleen, M.A.,  
T.C.D., Ph.D. Bonn (German).

*Music*

Whittaker, W. G., D.Mus., F.R.C.O.  
Lectr. and Reader in Choral M.

*Naval Architecture*

Abell, Sir Westcott S., K.B.E.,  
M.Eng. Prof.

Alexander, F. H., M.Sc., M.I.N.A.  
Reader.

*Philosophy, Mental and Moral*

Harvey, J. W., M.A. Ox. Prof.

Alderson, Mrs. J. E., M.A. Aberd.  
Lectr.

*Physics*

Curtis, W. E., A.R.C.Sc., D.Sc.  
Lond.

Prof. and Director of  
Dept.

Todd, G. W., M.A. Camb., D.Sc.  
Birm., M.Sc. Prof. (Expl. P.).

Bullerwell, J. W., M.Sc. Lectr.

Lunnon, R. G., M.A., B.Sc. Lond.,  
M.Sc. Lectr.

Wood, J. F., M.Sc. Lectr.

Darbyshire, O., M.Sc. Manc. "

*Religious Knowledge*

Fletcher, Rev. M., M.A. Camb. and  
Durh., M.Sc. Lectr.

*Secretarial Practice*

Arkless, J. C. Lectr.

*Veterinary Science*

Stewart, W. L., M.R.C.V.S.  
Adviser.

*Zoology, v. also Agric.* [Prof.

Meek, A., B.Sc. St. And., D.Sc.

Bartlett, Mrs. Olga M., M.Sc.  
Lectr.

Cooper, J. Omer, M.A. Camb. "

Storror, B., M.Sc.

Naturalist at Marine Lab.

Bull, H. O., B.Sc. Lond.

Biologist at Marine Lab.

Cowan, Mrs. D.

Librarian at Marine Lab.

*University Extension*

Extra-Mural Organiser and Secre-  
tary of the Extension Board:  
H. E. R. Highton, M.A. Glas.

## GENERAL INFORMATION

**LIBRARY**, 85,582 vols. (including the Medical libraries). Access to Lit. and Philos. Society's 100,000 vols., and to library of N. of England Inst. M.M.E. Scientific periodicals subscribed for in co-operation with City Public Library. Special libraries: English Bibles from 1535; Heslop, English dictionaries (277 vols.); Kieper, fifteenth to eighteenth-century printed books, mostly classics (600 vols.); Merz, philosophical and mathematical (2765 vols.); Spence Watson, early English texts (519 vols.); Indian History since Mogul times (925 vols.); Gilchrist Agricultural (700 vols.); Gertrude Bell, Oriental (1924 vols.). **LABORATORIES** with special facilities for research in Engin. and Hydr.; special branches of Chem., Physics, and Agric.; Marine Biol. (Dove Marine Lab., Cullercoats).

The Agric. Dept. controls and uses for teaching and research in Agric., Dairying, and Forestry several County and Crown estates, including Cockle Park (Northumberland) Agric. Exptl. Station.

**ADMISSION.** See Appendices XX. and XXI. For admission to study for the College Diploma (i.) in Agric., Mining, or Commerce, or for the Certificate in Fine Art, no regular entrance examn. is required; (ii.) in Engineering or Naval Architecture an entrance examn. must be passed unless the student has passed some equivalent examn. (School Certificate standard in Extra Maths., Mechanics, Physics, and Chemistry); (iii.) in Fine Art an entrance examn. in English, and either French, or German, or Spanish is prescribed.

Complete Courses for the Arts, Science, Law, and Commerce degrees and the Educn. Diploma of the Univ. The Applied Science courses are in Agriculture, Engineering (Mechanical, Marine, Civil, or Electrical), Naval Architecture, Mining, and Metallurgy. The Teachers' Training Dept. trains for both Elementary and Secondary School Work.

*College Diplomas* in Architecture (5 yrs.), Engineering (3 yrs.), Naval Architecture (3 yrs.), Mining (2 yrs.), Agric. (3 yrs. of 2 terms each), Fine Art (4 yrs.), Commerce (2 yrs.). *College Certificate* in Fine Art (4 yrs.). *College Certificate* in Agriculture (2 tms.). 'Short courses are provided in Agric. (6 weeks and 6 months).

A *Tutorial System* is established in all Faculties. Each student is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests.

**FELLOWSHIPS, ETC.** £300 for one year, open to a graduate in Science or Commerce; £150 for two years, open to a graduate of any Faculty; £150 for one year, open to a graduate in Science; £150 for one year, open to a graduate in Arts; £75 (two) studentships for one year, open to graduates of any Faculty. The total amount available for post-graduate fellowships, etc., is about £1800 p.a., including a Senior Research Fellowship established under the Research Fund (see next paragraph) of £300 p.a. available for one year.

**RESEARCH FUND** established in 1923 with endowment of £12,000. Administered by Standing Committees which allocate the interest of the fund as grants in aid of specific investigations by trained workers rather than for training persons in research.

Annual Tuition fee in courses for degree of B.A. or B.Com., £30; B.Sc., £35 (in Engin., etc., £40); and for Diploma in Agric., £22 : 10s.; Cert. in Agric., £18; Diploma in Teaching, £35; in Engin., etc., £40; in Fine Arts, £16; in Commerce, £5 : 10s. per subject (in evening classes, £3 a subject). Examns. for B.A. or B.Sc., £7; Students' Societies (men and women), £2 : 2s. Registration Annual (Degree students and some others), £2.

UNIVERSITY EXTENSION. Public lectures in the College include the annual Earl Grey Memorial and W. H. Charlton lectures, occasional lectures and short courses (winter programme issued in Oct.), lectures in French (Alliance Française), and popular evening lectures. Short courses in various centres in Agriculture and Forestry. Tutorial classes in various centres (most of the tutors are regular members of college staff).

PUBLICATIONS. *Calendar* (Sept.), 2s. 6d.; *Annual Report* (Oct.); *The Northerner* (Students'), 5 issues annually.

## THE YEAR 1928-29

BENEFACTIONS. Anonymous, machinery for dressing minerals, value £5000, in the Lab. of New Mining Department; Sir W. J. Noble, Bart., £2000, for General Endowment Fund and Assignment of Life Policy, value £1850; the late Lady Noble, £1000; anonymous, £100 to Depart. of Mining; friends of the late Ronald Fallows, £25 to Depart. of Geology as nucleus of a Prize Fund in his memory.

RETIREMENTS AND RESIGNATIONS. Sir Theodore Morison (Principal); Miss Geraldine E. M. Jebb (Econ.), on appointment as Principal of Bedford Coll., Lond.; H. Baker (Eng.), on appointment as Head of Dept. of Mech. and Civ. Eng. at Sunderland Tech. Coll.; D. A. Allan (Geol.), on appointment as Curator of Public Museums at Liverpool; James Holmes (Geog.), on appointment to Chair of Geog. in Sydney Univ.; R. G. Heddle (Agric. Botany); V. H. Edwards (German), on appointment as Lectr. in German, Univ. Coll., Hull; C. V. Miller (Eng.), on appointment as Prof. of Eng. in Bengal Eng. Coll., Sibpur, India; W. G. Waddell (Classics), on appointment as Prof. of Classics to Cairo Univ., Egypt.

EXTENSION WORK. Public lectures in the College included: a series in French under the auspices of the Alliance Française; the Earl Grey Memorial Lecture on "An Outline of Neurology and its Outlook," by Sir E. Farquhar Buzzard, K.C.V.O., M.A.; the W. H. Charlton Lecture on "Form," by Mr. F. Ernest Jackson; and a series of Popular Saturday Evening Lectures throughout the winter by various members of the Staff.

STUDENTS. Full-time, 719. Part-time, 445.

DEGREES OBTAINED: M.A., 19; B.A., 46; D.Sc., 3; Ph.D., 2; M.Sc. (Pure Sci.), 12; B.Sc. (Pure Sci.), 48; M.Sc. (Appld. Sci.), 4; B.Sc. (Appld. Sci.), 27; B.Com., 6; M.Litt., 1.

# UNIVERSITY OF LEEDS

VISITOR—H.M. THE KING.

CHANCELLOR—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G., G.C.V.O., LL.D.

PRO-CHANCELLOR—Col. C. H. TETLEY, D.S.O., M.A.

VICE-CHANCELLOR—J. B. BAILLIE, O.B.E., M.A. Camb., D.Phil. Edin., LL.D.

PRO-VICE-CHANCELLOR—Prof. W. GARSTANG, M.A., D.Sc.

TREASURER—Hon. R. E. BECKETT.

DEANS OF FACULTIES. See under "General Information"—Faculties.

REGISTRAR—A. E. WHEELER, M.A.

ACCOUNTANT—E. J. BROWN, B.Com.

CLERK TO THE SENATE—F. T. BAINES, B.A.

DEAN OF WOMEN STUDENTS—Miss A. SILCOX, B.Sc. Lond.

LIBRARIAN—R. OFFOR, Ph.D. Lond.

## PROFESSORS, LECTURERS, ETC.

<i>Agriculture</i> , v. also Vet. Hyg.	Nicoll, W. B., B.Sc.	Asst. Lectr.
Seton, R. S., B.Sc. Edin.	Prof. Bywater, T. L., B.Sc. Wales	
.....	Lectr.	Asst. Lectr.
Robertson, G. C. A., M.C., M.A., B.Sc. Aberd.	District Lectrs. :	
McGregor, J., B.Sc. Glas., N.D.A., N.D.D.	Thompson, H., B.Sc. Manc.	
Lectr. (Dairy Husbandry).	Strachan, J., M.A., B.Sc. Aberd., N.D.A.	
Asst. Lectrs. (Dy. Husb.):	Robb, J., B.Sc. Aberd.	
Murchie, A., B.Sc. Glas., N.D.A., N.D.D.	Findlay, D. H., B.Sc., N.D.A., N.D.D.	
Glen, J., B.Sc. Glas., N.D.A., N.D.D.	Gibson, W. S., B.Sc.	
Ruston, A. G., B.A., B.Sc. Lond., D.Sc. (Agric. Econ.)	Gelling, W. E., B.Sc., N.D.A.	
Lectr.	10 Instrs. and Asst. Instrs. in Dairying, Hortic., Poultry, Farriery, and Bee-keeping	
Liversage, V., B.Sc. Lond., M.Sc. Wis., N.D.A. (Agric. Econ.)	<i>Agric. Botany</i>	
Asst. Lectr.	Millard, W. A., B.Sc. Bris.	
Witney, D., B.Com.		Lectr.
Res. Asst. (Agric. Econ.).	Jones, A. Powell, M.Sc.	
Galt, A. S. (Hortic.)		Asst. Lectr.
Lectr. and Organizer.	Burr, S., M.Sc.	Asst. Lectr.
Nicholls, H. E., B.Sc.	Chalmers, C. H., B.Sc. Edin., N.D.A.	
Withers, D. C., N.D.A.		Asst. Lectr.
Stud. Assts. (Farm Costings).	Ferguson, R. G., B.Agr. Belf.	
Goode, C. W., N.D.A., N.D.D.		Demr.
Lectr. (Poultry).	Turner, Miss D. M., B.Sc.	Demr.

*Agric. Chemistry*

- Comber, N. M., D.Sc. Lond.,  
A.R.C.S., F.I.C. Prof.  
Jones, H. Trefor, M.Sc., A.I.C.  
Asst. Lectr.  
Willcox, J. S., B.Sc. Lond.  
Marshall, C. E., M.Sc., Ph.D.  
Asst. Lectr.

*Agric. Zoology*

- Taylor, T. H., M.A. R.U.I. Lectr.  
Johnson, L. R., B.Sc. Asst. Lectr.

*Anatomy*

- [Prof.  
Jamieson, J. Kay, M.B., G.M.  
Edin. (Dean of Med. Fac.)  
Cave, A. J. E., M.B., Ch.B. Manc.  
Demr.  
Inkster, R. G., M.B., Ch.B. Edin.  
Demr.  
Morton, W. C., C.B.E., M.A., M.D.  
Edin. Hon. Demr.  
Tasker, R. B., L.D.S., Hon. Demr.  
in A. for Dental Students.

*Bio-Chemistry, v. Physiol.**Botany*

- Priestley, J. H., D.S.O., B.Sc.  
Lond., F.L.S. Prof.  
Pearsall, W. H., D.Sc. Manc.  
Reader.  
Walker, N. (Morphol.) Lectr.  
Asst. Lectrs.  
Scott, Lorna I., B.Sc. Lond.  
Steward, F. C., Ph.D.

## Demrs. :

- Gane, R., Ph.D. (Plant Physiol.).  
Sledge, W. A., Ph.D., B.Sc.  
Grist, Mrs., B.Sc. Lond. Hon.  
Tupper-Carey, Miss R. M. (R.).  
Grainger, J., B.Sc.  
Res. Fellow (Virus Dis.).

*Chemistry, v. also Technology-  
Colour Chemistry.*

- Whytlaw-Gray, R. W., O.B.E.,  
Ph.D. Prof.  
Usher, F. L., B.Sc.  
Reader (Colloid Chem.).

- Lowson, W., B.Sc. Lond., B.Sc.,  
F.I.C. (Analyt. C.) Lectr.  
Gregory, J. C., B.Sc., F.I.C. ,  
Hume, J., B.Sc., A.I.C. ,  
Asst. Lectrs. and Demrs. :  
Clark, C. H. D., M.Sc. Lond.  
Garrick, F. J., B.A. Ox.  
Colvin, J., B.Sc., Ph.D. Liv. Demr.  
Bradley, R. S., B.A. Camb. Demr.  
Whitaker, H., M.Sc. (R.).

*Chemistry, Physical*

- Dawson, H. M., B.Sc. Lond., Ph.D.  
Gies, D.Sc. Prof.  
Smith, G. F., Ph.D. Wales  
Asst. Lectr.  
Belton, J. W., Ph.D. Liv. Demr.

*Chemistry, Organic*

- [Prof.  
Ingold, C. K., D.Sc. Lond., F.R.S.  
Baker, J. W., D.Sc. Lond. Lectr.  
Burton, H., Ph.D. Lond., B.Sc.  
Sheff. Lectr.  
Wightman, W. A., M.A. Ox.  
Asst. Lectr. & Demr.  
Goss, F. R., Ph.D. Lond. Demr.  
Shoppee, C. W., B.Sc., Ph.D.  
Lond. Demr.  
Rothstein, E., Ph.D. (R.).  
Ingold, Mrs. C. K., D.Sc. Lond.  
Hon. Demr.

*Chemistry Research*

- Ellingworth, S., M.Sc. Asst.  
Cooper, K. E., Ph.D. Asst.

*Classics*

- [Prof. (Greek).  
Edwards, W. M., M.A. Ox.  
..... Prof. (Latin).  
Bibby, E. E., M.A. Camb. Lectr.  
Binyon, D. E. F., B.A. Ox.  
Asst. Lectr.  
Symonds, H. E. Pt.-time Lectr.

*Commerce, v. Economics**Dental Science, v. infra**Economics*

- Jones, J. H., M.A. Wales Prof.  
Shimmin, A. N., M.A. Manc. Lectr.  
Dower, R. S., M.A. Camb. (Social  
Organization) Lectr.

Taylor, J. R., M.A. (Ec. Hist.)	Baxter, F. W., M.A. Ox.	Lectr.
	Wrenn, C. L., M.A. Ox.	
McCarmick, A. (Acctcy.)		Pt.-time Lectr.
Dickinson, H. D., M.A. Camb.	Asst. Lectrs. :	
	Childe, W. R., M.A. Ox.	
Wilson, Miss	Ross, A. S. C., B.A. Ox.	
		Tutor.

*Education*

Strong, J., C.B.E., M.A. Lond.,	
LL.D. St. And.	Prof.
Welpton, W. P., B.Sc. Lond.	
	Lectr.
Monahan, A. J., M.A.	Lectr.
Wynn-Jones, Ll., Ph.D. Leip.	
(Expl. E.)	Lectr.
Curtis, S. J., M.A. Lond.	

Asst. M. of Method.

Blackburn, Eliz. M., M.A.	
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Lectr. and M. of Method.

Robson, Winifred F., M.A. Liv.	
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Asst. M. of Method.

Holgate, Jane, B.A.	Asst. Lectr.
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Newcomb, Edith, M.A.	Asst. Lectr.
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Brown, W. G., M.Ed., B.Sc.	
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Manc. Asst. Lectr.

*Engineering, Civil and Mech.*

David, W. T., M.A., Sc.D. Camb.,	
----------------------------------	--

D.Sc. Wales, M.I.C.E.,

M.I.Mech.E. Prof.

Gilchrist, J., B.Sc. Edin., A.M.I.C.E.	
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Lectr.

Asst. Lectrs. :

Davies, W., B.Sc. Wales	
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Richardson, S. G.	
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Evans, R. H., B.Sc. Manc.	
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Brown, J. R.	Demr.
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Caton, E. E.	Demr.
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*Engineering, Elec.*

Wheatcroft, E. L. E., M.A. Camb.	[Prof.
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French, W. E., A.M.I.C.E.,	
----------------------------	--

M.I.E.E. Lectr.

Stuart, W. S., M.Eng. Liv.	
----------------------------	--

Asst. Lectr. and Demr.

*English Lang. and Lit.*

Gordon, E. V., M.A. Ox.	
-------------------------	--

Prof. (Lang.).

Wilson, F. P., D.Litt. B'ham.,	
--------------------------------	--

M.A. Ox. Prof. (Lit.).

*French (and Romance Philol.)*

Barbier, P., M.A. Lond.	Prof.
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Gunnell, Doris, M.A., D. de l'U.	
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Paris Lectr.

Murray, Jessie, M.A. St. And.,	
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D. de l'U. Paris Lectr.

Inebnit, J. P.	Asst. Lectr.
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Benn, T. V., Ph.D.	Asst. Lectr.
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*Geography*

[Lectr.

Williamson, A. V., M.A. Liv.	
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Asst. Lectrs. :

Morgan, M. Kathleen, B.Sc. Wales.	
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Henderson, H. C. K., M.A., B.Sc.	
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*Geology*

Gilligan, A., D.Sc., F.G.S.	Prof.
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Versey, H. C., M.Sc.	Lectr.
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Hudson, R. G. S., M.Sc. Lond.,	
--------------------------------	--

F.G.S. Lectr.

Temperley, B. N., B.Sc.	
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Demr. and (R.).

*German Lang. and Lit.*

Gough, C. E., Ph.D. Basle	Prof.
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Asst. Lectrs. :

Caldwell, Mary C., B.A.	
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Scott, Alice, M.A. Lond.	
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*Histology, v. Physiology**History*

Thompson, A. Hamilton, M.A.,	
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D Litt., F.B.A., F.S.A., Hon.

A.R.I.B.A. Prof.

Turberville, A. S., M.C., M.A.,	
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B.Litt. Ox. Prof. (Mod.).

Dainton, A. H., M.A. Ox.	Lectr.
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Richardson, G. W., M.A. Lond.	
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Lectr.

*History, Eccles.*

Underwood, A. C., M.A., B.Litt.,	
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D.D. Lectr.

(R.) = Research Asst.

*Law*

Hughes, J. D. I., M.A., B.C.L. Ox.  
Prof.

## Lectrs. :

Haggen, G. L., M.A., B.C.L. Ox.  
Burrill, H. R., LL.B.  
Hargreaves, A. D., M.A., LL.B.  
Camb.

*Mathematics*

Milne, W. P., M.A. Camb., D.Sc.  
Aberd., M.A. Prof.  
Brodetsky, S., M.A. Camb., Ph.D.  
Leip. Prof. (Appd. Maths.).  
Ingham, A. E., M.A. Camb.  
Reader (Math. Analysis).

## Lectrs. :

Gilham, C. W., M.A. Camb., B.Sc.  
Lond.  
Smeal, G., B.Sc. Melb. (Statis.  
Meth.)  
Stoneley, R., M.A. Camb. (Appl.  
M.).  
Gabriel, R. M., B.A. Camb. Asst.

*Medicine and Surgery, v. infra**Metallurgy, v. Tech.**Mining*

Ritson, J. A. S., D.S.O., B.Sc.  
Durh. Prof.  
Brown, T., M.Sc.  
Lectr. in Mine Surveying.  
Williamson, J. N., Ph.D., B.Sc.  
Edin. Asst. Lectr.

*Music*

Allam, E. W., B.A. Camb., B.Mus.  
Lond., A.R.C.M.

*Philosophy*

Gillespie, C. M., M.A. Ox. Prof.  
Hallett, H. F., M.A. Edin.  
Lectr.

*Physics*

Whiddington, R., M.A., D.Sc.  
Camb., F.R.S. Cavendish Prof.  
Stoner, E. C., B.A., Ph.D. Camb.  
Reader.  
Allen, A. O., M.A., B.Sc. Lond.  
(Optics) Lectr.

## Asst. Lectrs. and Demrs. :

Ewles, J., M.A. Camb.  
Long, F. A., B.Sc. Lond.  
Brindley, G. W., M.Sc. Manc.  
Grew, K. E., B.Sc. B'ham. Demr.  
Lilley, E. M., B.A. Ox. (R.).  
2 Asst. Demrs.

*Physiology and Histology*

McSwiney, B. A., B.A., Sc.D.,  
M.B., Ch.B. Dubl. Prof.  
Winfield, G., M.A. Camb. Lectr.  
Wormall, A., B.Sc., A.I.C. (Bio-  
Chem.) Lectr.  
Marshall, P. G., M.Sc.  
Demr. (Bio-Chem.).  
Brown, G. L., M.Sc., M.B., Ch.B.  
Manc.

Demr. in Comp. Phys.  
Dickinson, Mrs. H. D., M.A. Camb.,  
M.R.C.S., L.R.C.P.

Pt-time Asst.  
Killick, Miss E. M., B.Sc., M.B.,  
Ch.B. (Temp. R.).  
..... (R.).  
Flint, E. R., M.B., Ch.B., F.R.C.S.  
(Histology) (C.).

*Russian Lang. and Lit.*

..... Prof.  
Kolni-Balozky, J. Lectr.

*Russian History and Music*

Frere, W. H., D.D. Hon. Demr.

*Spanish Lang. and Lit.*

..... Prof.  
Penzol, P. Lectr.  
de Irizar, Augustin Asst. Lectr.

*Technology, v. infra**Veterinary Hygiene*

Bowes, H. G., F.R.C.V.S. Lectr.  
*Zoology, v. also Agric.* [Prof.  
Garstang, W., M.A., D.Sc. Ox.  
Lloyd, Ll., D.Sc.  
Reader (Entom.).  
King, Mrs. W. O. R., B.Sc.  
Asst. Lectr. & Demr.

(C.) = Clinical Lectr.

(R.) = Research Asst

Henson, H., B.Sc. Birm.  
Asst. Lectr. & Demr.

Asst. Demr. & Curator (R.).

Medicine (for subjects of first 2  
yrs.—Anat., etc., v. *supra*)

*Anæsthetics*

Rowling, S. T., M.B. Vict.,  
M.D. Lectr.

*Bacteriology*, v. Path.

*Cancer*, v. Path.

*Forensic Med.*

Eurich, F. W., M.D., C.M. Edin.  
Prof.

*Gynæcology*, v. also Obst.

Gough, W., B.Sc., M.B., B.S.  
\* Lond., F.R.C.S. Lectr. (C.).  
..... Hon. Demr. (C.).

*Infectious Diseases*

Anderson, J. S., M.A., M.D.,  
D.P.H. Aber. (C.).

*Materia Med.*, v. Therap.

*Medicine and Clin. Med.*

Telling, W. H. Maxwell, M.D., B.S.  
Lond., F.R.C.P. (C.) Prof.

Watson, G. W., M.D. Lond.,  
F.R.C.P. (C.) Prof.

Vining, C. W., M.D. Lond., D.P.H.  
Prof. (Diseases of Children).

Ingram, J. T., M.D.  
Lectr. (Skin Dis.).

MacAdam, W., M.A., B.Sc., M.D.,  
Ch.B. Glas., M.R.C.P.

Lectr. (C.).

Walker, G. F., M.D.

Med. Tutor and Registrar.

Moll, H. H., M.D., Ch.B., M.R.C.P.  
Pt.-time Med. Tutor.

*Mental Diseases*

Bolton, J. S., M.D., D.Sc. Lond.,  
F.R.C.P. Prof.

*Obstetrics and Gynæcology*

Oldfield, C., M.D. Lond., F.R.C.S.  
(C.) Prof.

Young, W. M., M.A., M.D. Glas.  
(C.).

Adamson, Mrs. R., M.D., B.S.  
Lond. Lectr. (Obst.) (C.).

Claye, A. M., M.D. Tutor.

*Ophthalmology*

Lee, H., B.A., M.B., B.Ch. Camb.,  
F.R.C.S. Lectr. (C.).

Lodge, S. D., F.R.C.S. Lectr. (C.).

*Otology*

Bain, E. W., M.B., B.S. Lond.,  
F.R.C.S. Lectr. (C.).

Munby, W. M., Ch.M. Edin.,  
F.R.C.S. (C.).

*Pathology and Bacteriology*

Stewart, M. J., M.B., Ch.B. Glas.,  
F.R.C.P. (C.) Prof.

McLeod, J. W., O.B.E., M.B.,  
Ch.B. Glas.

Brotherton Prof. of B.

Passey, R. D., M.C., M.D., B.S.,  
D.P.H. Lond.

Prof. Exper. Path. and

Dir. *Cancer Research*.

Fowweather, F. S., M.D., M.Sc.  
Liv., D.P.H.

Lectr. (Chem. Path.).

Gordon, J., M.D., D.P.H.

Lectr. in B.

Polson, C. J., M.B., Ch.B. Birm.  
Lectr. in P.

Sutherland, P. L., M.B., Ch.B.  
Glas., D.Sc.

Lectr. (Path. of *Indus-  
trial Diseases*).

Happold, F. C., M.Sc. Manc.

Demr.

Hickman, Miss E. M., M.Sc., M.D.  
Demr.

Wheatley, Bertha, M.B., Ch.B.  
Demr.

Morley, R. H., M.B., B.S. Lond.  
Demr.

Cattley, R., M.B., C.M. Edin.,  
B.Sc., D.P.H. Camb.

Hon. Fellow.

Burrow, J. le F. C., M.B. Edin. (C.)  
Hon. Demr. in Med. P.

Richardson, A., M.B., B.Sc. Lond.,  
F.R.C.S. Hon. Demr. in Surg. P.

(R.) = Research Asst.

(C.) = Clinical Lectr.

- Stewart, Mrs., M.B., B.S. Lond.  
Hon. Demr.
- Phelon, H. V., M.B., Ch.B.,  
M.R.C.P. Hon. Demr.
- Cancer Research:  
Young, J. S., M.B., Ch.B. Glas.  
Lectr. in Exp. Path. and  
Asst. Dir.
- Channon, H. J., M.Sc. Lond.  
Lectr. (Bio-Chem.).
- Bonser, Mrs. K. J. Fellow.
- Collinson, G. A., M.Sc., Ph.D.  
Fellow.
- Berenblum, I., B.Sc., M.B., Ch.B.  
Fellow.
- Shaw, G. H., M.B. Glas. Fellow.
- Spurrell, W. R., M.S. (R.).
- Pharmacology*  
..... Hon. Demr.
- Pharmacy, v. Therap.*
- Public Health, v. also Path.*
- Jervis, J. J., M.D. Edin., D.P.H.  
Lond. Prof. of P.H. Admn.
- Radiology and Electro-Therapeutics*  
[Lectr.]
- Scargill, H. B., M.B., B.S. Lond.
- Cooper, G., B.A., M.D. Belf. Lectr.
- Surgery and Clin. Surg.*
- Dobson, J. F., M.S. Lond.,  
F.R.C.S. Prof.
- Armitage, G., M.C., M.B., Ch.M.,  
F.R.C.S. Surg. Tutor.
- Daw, S. W., M.B., B.S. Lond.,  
F.R.C.S. Lectr. in Orth.S. (C.).
- Braithwaite, L. R., M.B., Ch.B.  
Manc., F.R.C.S.
- Dir. of Surg. Res. (C.).
- Surgery, Clinical*
- Collinson, H., C.B., C.M.G., D.S.O.,  
T.D., M.B., M.S. Lond.,  
F.R.C.S. Prof.
- Moir, P. J., M.C., M.B., Ch.B.,  
F.R.C.S. Lectr. (C.).
- Symons, H. W., M.B., Ch.B.,  
F.R.C.S. Lectr. (C.).
- Chamberlain, D., M.B., Ch.M.,  
F.R.C.S. Lectr. (C.).
- Therapeutics, Pharm., and Mat. Med.*
- Veale, R. A., B.A. Ox., M.D.  
Lond., F.R.C.P.  
(Lectr. in Clin. Med.) Prof.
- Anning, J. J., A.S.A.  
Lectr. Pharm. and Mat. Med.
- Vaccination*
- Greaves, F. W. M., M.B. Manc.,  
D.P.H. Instr.
- Venereal Diseases*
- Bibby, J. P., M.B., Ch.B. (C.).
- Dental Science**
- Dental Anatomy and Physiology*  
Mawer, J. W., L.D.S. Lectr. & (C.).
- Dental Mechanics*
- Thorburn, W. S., L.D.S. (C.).
- Watt, G. V., L.D.S. Tutor
- Dental Metallurgy*
- Lowson, W., B.Sc. Lond., B.Sc.,  
F.I.C. Lectr.
- Dental Radiology*
- Scargill, H. B., M.B., B.S. Lectr.
- Dental Histology*
- Russell, G. H. H., M.B., Ch.B.  
Manc. (C.).
- Orthodontia*
- Wilkinson, G. L., M.R.C.S.,  
L.R.C.P., L.D.S. Lectr. (C.).
- Dental Surgery* [(C.).
- Child, C. H., M.B.E., D.D.S., L.D.S.
- Hey, S. D., L.D.S. Lectr. (C.).
- Other Lecturers:**
- Marston, W., L.D.S. (C.).
- Iles, G. D., L.D.S. (C.).
- Harris, W. S., L.D.S. (C.).
- Crawford, J. K., L.D.S. (C.).
- Cocker, J. P., L.D.S. (C.).
- Watt, G. V., L.D.S. Tutor,
- 5 Hon. Clin. Tutors

(R.) = Research Asst.

(C.) = Clinical Lectr.

Hon. Anaesthetists :  
 Sykes, W. S., M.B., Ch.B., D.P.H.  
 Olver, M. B., Ch.B.

*Dentistry, Clinical*  
 Roberts, G. L., M.B., Ch.B.,  
 B.D.S. Liv. Tutor.  
 White, J. R. S., B.Ch.D.  
 Prost. Demr.  
 Sykes, J. G., B.Ch.D. Tutor.

Technology, v. also Agr., Engin.,  
 Mining

*Coal, Gas, and Fuel Industries  
 with Metallurgy*  
 Cobb, J. W., C.B.E., B.Sc. Lond.,  
 B.Sc., F.I.C. Livesey Prof.  
 Hodsman, H. J., M.B.E., M.Sc.,  
 F.I.C. (Gas Chem.) Lectr.  
 Sugden, J. A., Ph.D. (Refractory  
 Materials) (R.) & Demr.  
 Summers, P. F., A.R.S.M. (Metall.)  
 Asst. Lectr.

Gas Research :  
 Wood, J. W., M.Sc. Tech. Manc.,  
 A.I.C.  
 Monkhouse, A. C., Ph.D., A.I.C.  
 Howarth, G. B., M.Sc., A.I.C.  
 Dent, F. J., B.Sc., Ph.D.  
 Blackburn, W. H., Ph.D.  
 Kelly, A. R., B.Sc.

Benzole Research :  
 Hoffert, W. H., M.A., B.Sc. Ox.,  
 A.I.C.  
 Claxton, G., M.Sc.

*Colour Chemistry and Dyeing*  
 Rowe, F. M., D.Sc., F.I.C. Prof.  
 Forster, R. B., Ph.D., D.Sc.,  
 F.I.C., A.R.C.S.I.,  
 Lectr. in Colour Chem.

(R.)=Research Asst.

King, P. E. (Dyeing) A.I.C. Lectr.  
 Cross, E. J., B.Sc. Asst. Lectr.  
 Lane, J. M. (R.).  
 Peters, A. T., M.Sc. Ph.D. Manc.  
 (R.).

*Leather Industries*  
 McCandlish, D., M.Sc. (Applied  
 Chem.) Prof.  
 Atkin, W. R., M.Sc. Lectr.  
 Thompson, F. C., M.Sc. Lectr.  
 Singleton, F., B.Sc. Lond. (R.).  
 Procter International Research  
 Laboratory :

..... Hon. Director.  
 Thompson, F. C., M.Sc. (R.).

*Textile Industries*  
 Barker, A. F., M.Sc. Prof.  
 Hollis, T. Lectr.  
 Yewdall, A. Lectr.  
 Pickles, F. Lectr.  
 Speakman, J. B., M.Sc. Manc. "  
 Astbury, W. T., B.A. Camb. "  
 Farley, W. A. Asst. Lectr.  
 Priestley, G. Asst. Lectr.  
 Woods, H. J., B.A. Ox. (R.).  
 Barker, S. G., Ph.D. Berlin (Dir.,  
 Res. Students at Torridon).  
 Denham, W. S., D.Sc. (Dir., Silk  
 Res. Students).

University Extension  
 Staff Tutors : Dainton, A. H.,  
 M.A. Ox. ; Gibson, G. W.,  
 M.A. ; Shimmin, A. N., M.A.  
 Manc. ; Stewart, D., M.A.  
 N.U.I. ; Taylor, J. R., M.A.  
 Edin. ; Walker, N. ; Williams,  
 J. R., B.A. ; Johnson, L. G.,  
 B.A. Sheff.

## AFFILIATED COLLEGES

COLLEGE OF THE RESURRECTION, MIRFIELD (Warden—G. Rees, M.A.)  
 and RAWDON COLLEGE (Principal—A. C. Underwood, D.D.). Students  
 are exempt from attendance at the Univ. in the first yr. for B.A.

TECHNICAL COLLEGE, HUDDERSFIELD (Prin.—J. F. Hudson, M.A., B.Sc.).  
 Similar exemption for B.A., B.Sc. (including Engin.), and M.B. and Ch.B.

DIOCESAN TRAINING COLLEGE, YORK. Similar exemption for B.A., B.Sc.

PRINTING DEPARTMENT OF THE LEEDS CENTRAL TECHNICAL SCHOOL. Classes recognized as part of course for the B.Com.

## GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College, established as a College of Science in 1874, were united in 1884. The College formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was established by Royal Charter in the city of Leeds.

**LIBRARY**, including that of the Medical School, about 114,587 books, 32,333 pamphlets. Besides the General Library, there are separate rooms devoted to Science, Agriculture, English, French, German, Classics, Economics, Philosophy, History, Law and Music. Special collections: (a) MSS. illustrating developments in textile industry about 1800; (b) 1650 vols. in French on Great Britain, printed before 1801; (c) 264 vols. contemporary records (Journal Officiel, newspapers of Metz, Strasbourg, and Nancy, etc.) of political events in France during 1870 and 1871; (d) an Icelandic collection of 4000 vols.

**MUSEUMS**: Anatomy, Dyeing, Materia Med., Path., Textile, Zool. **LABORATORIES**: Agricultural Chemistry, Botany, Chemistry, Colour Chem. and Dyeing, Engin. (Elec., Civ., Mech.), Geol., Leather Industries (including Procter Internat. Research), Maths., Metallurgy, Mining, Path. and Bacteriology, Cancer, Physics, Physiol., Textile (116 looms), Zool. **OBSERVATORY**, 18½" reflector telescope. **FARM**, 312 acres, including Dairy School; Research farm, 350 acres, near Scarborough. **HOSPITALS** available for Clinics: Infirmary (630 beds) and several others; Asylum (2000 inmates).

**FACULTIES**. Arts (including Economics and Law), Science, Technology [including Agric., Coal Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering (Civ., Elec., Mech.), Leather Industries, Mining, Textile Industries], Medicine (including Dentistry). *Deans*: Profs. . . . . (Arts), Milne (Science), Seton (Technology), Jamieson (Medicine).

In connexion with each of the technological departments there is an Advisory Committee, which includes representatives of the industry concerned.

**MATRICULATION**. See Appendices XX. and XXII. An *Overseas Students'* Committee has been appointed.

**DEGREES**. Obtainable after a 3 yrs.' course starting from matricn.—B.A., B.Sc. (Honours degree usually 4 years), B.Com. (which may be taken with an Applied Science as one of the principal subjects: 3 yrs. for degree, or 4 yrs. including Diploma of Printing Dept. of Leeds Tech. Coll.); LL.B.; after 5½ to 6 yrs., M.B., Ch.B., B.Ch.D.

Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs. requiring residence as a condition of graduation may be permitted to count their studies and examns. (other than the Final examn.) therein towards graduation in Leeds.

*Mining* students receive practical instruction in mines under arrangements made with local owners, but the courses are not intended to supersede the usual apprenticeship.

Hons. students of Mod. Langs. (French, German, Russian, Spanish) normally spend 3rd term of 2nd year at some approved foreign Univ.

Supplementary Textile studies may be combined with a B.A. or B.Com. course. Any of the Tech. subjects may be taken in a B.Sc. course. The Law Dept. prepares students for the Bar and Solicitors' examns. as well as for the Univ. degrees.

**HIGHER DEGREES**. M.A., LL.M., M.Com., M.D., Ch.M., 1 yr.; M.Ed., M.Sc., 2 yrs. (for holders of Hons. B.Sc., 1 yr.) after the bachelorship.

Graduates of approved Univs. (all the chief Univs. of the world, including institutions recognized by the Assocn. of Amer. Univs., v. App. XXVI.) may obtain the M.A., Ph.D. (v. p. 17), or M.Sc. by 2 yrs. of research. M.A., Ph.D. or M.Sc. of this Univ. may obtain the Litt.D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

**DIPLOMAS.** In Education (grads.) or Ed. Admn., 1 or 2 yrs. In Social Organization and Public Service, 2 yrs. In Engin., Fuel and Metall., Dyeing, Textiles, Leather, Agric., 3 yrs., reducible under certain conditions to 2. In Gas Engin. or Fuel and Metall., special for graduates, 1 yr.; for apprentices, part-time, 4 yrs. In Colour Chem. and Dyeing, for apprentices, part-time, 5 yrs. In Public Health, 12 mos. In Psych. Med., 6 mos. In Nursing, involving 4 yrs.' hospital training and 3 mos.' lectures. In Dent. Surg., 4 yrs., including 2 in Univ. In Commerce, 1 yr. (postgrad.).

**EVENING COURSES** for advanced students in Technological subjects are conducted in co-operation with the Leeds and West Riding Education Committees.

**FEES.** Matricn., £2. Registration, £2. Composition fees for tuition (including Union): Arts, £33 a session; Science, £41; Technology, £45; Agric. (other than degree students, who pay the Technol. fee in the 2nd and 3rd yrs.), winter course, £20, summer course, £10; Law courses, 11 gs. a session. Course for Dipl. in Educn., £42 p.a.; Dipl. in Social Organization, £26 p.a. Medicine: complete course for M.B., including hosp. practice, £215. Dentistry (including hosp. practice and pupillage): Dipl., £234; Degree, £260. Research fee, £12 a session. Examns.: Arts, Science, etc., £6; Medicine (including graduation), £18; Dentistry, B.Ch.D., £16; L.D.S., £16. Graduation fee, £7.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Fellowships, £200 for one year, renewable, for research in Gas, and £100, renewable, in Col. Chem.; £150 for 3 yrs. for Textile Research (preference to graduates in Science or Tech. and to natives or residents of Bradford, but not restricted to members of Leeds Univ.); also £150 for 2 yrs. for research and advanced study; £150 for 2 yrs. for research in English, or History, or Economics; £100 for research in Chem. or Pharm.; £70 Scholp. for research in Arts Faculty; £125 for higher Humanistic study, for graduates of Leeds or Sheffield; £45 for advanced study in Greek or Latin; £60, Colour Chem. and Dyeing; £20 (three), in Textile Dept.; £25, Forensic Med. and Hygiene.

**RESIDENCE.** One hostel for 120 men and 4 for women. Fees, men £64, women £54 to £63 per session of 32 weeks. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students.

**AN OLD STUDENTS' ASSOCN.** was formed in 1923.

**UNIVERSITY EXTENSION.** Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educnl. Assocn. and Local Education Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

Summer Schools are arranged from time to time.

In connexion with the Agric. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

**PUBLICATIONS.** *Calendar* (Sept.), 4s.; Annual Reports of the Univ. and of Tech. Depts.; List of Researches, etc.; *Gryphon*, 3s. annually (students' magazine); *Union Handbook*; Prospectuses of various Depts.

## THE YEAR 1928-29

**BENEFACTIONS.** Appeal Fund (June 1929), £421,387, including anonymous gift of £10,000. Four Cancer Research Fellowships have been given through the Yorkshire Council of the British Empire Cancer Campaign by Sir William H. Aykroyd, Bart., Colonel Sir Edward Allen Brotherton, Bart., Capt. W. Riley Smith and Mr. Bertram Parkinson, respectively. They will be awarded to duly qualified candidates by the Senate on the recommendation of the Board of the Fac. of Med. after consultation with the Cancer Research Advisory Committee of the Univ. They will be tenable for 1, 2, or 3 years, and may be renewed thereafter for such periods as the Senate may determine. Annual value of each Fellowship not exceeding £500. £15,000 from Sir Edwin Currey for collection of Icelandic books. £1000 from Lord Beaverbrook. Dorothy Wharton Memorial Prize in Geography. £325 from Leeds and North-Eastern Tanners' Federation. Pictures, collections, etc., and valuable gifts of books to the Library.

**NEW BUILDINGS AND EQUIPMENT.** Foundation stone of new buildings laid on Oct. 2. New buildings for Mining and Physics Depts. New hostel for men students at Regent Court, and extension of Medical School in progress. Extension of Textile Dept. opened in October.

**NEW POSTS.** Chair in Industrial Relations endowed by Mr. Montague Burton; Chair in Mod. Hist.; Readership in Entom.; additional Staff Tutor for Tutorial Classes; Lectureships in Music and Orthodontia.

**CHANGES IN REGULATIONS, ETC.** Various amendments of Ordinances and Regulations.

**UNIVERSITY EXTENSION COURSES** at 13 centres, 46 Tutorial Classes; Tutorial Class Summer School at Great Ayton; Course of 8 public lectures on "Fundamental Principles in Bible Study," by Rev. F. Hugh Pope. Nine lectures on "Yorkshire Industries," six on "Tolstoy," and two on "Fine Art"; 12 separate public lectures on science, music, literature, etc.; 9 midday music recitals; over 500 lectures given in county by Agricultural Department in addition to 9 organized courses in Agriculture, Horticulture, etc.; 35 ten days' courses in butter- and cheese-making; and 5 classes in hedging, walling, and milk production.

**OTHER DEVELOPMENTS AND SPECIAL EVENTS.** Interchange of students with Reykjavik Univ. Co-operation with British Silk Research Association. Decision to allow Composition fees to be paid by instalments.

**RESIGNATIONS.** Prof. Hugh Stewart, on appointment as Principal, Nottingham Univ. Coll. Dr. H. W. Davies, Lectr. in Physiol. and Pharmacol., on appointment to Chair of Physiol., Sydney Univ. T. M. Naylor, Lectr in Eng., on appointment as Hd. of Depts. of Mech. and Elect. Eng., Harris Institute, Preston. H. Preston, Asst. Lectr. (Agric. Eng.), on appointment as Civilian Edn. Officer, R.A.F. Dr. A. Massey, Hon. Demr., Pub. Health, on appointment M.O.H., City of Coventry. Dr. E. Holmes, Surg. Tutor, on appointment to Royal Hosp. and Univ. of Baghdad.

**HONORARY DEGREES.** LL.D.—Her Grace the Duchess of Devonshire, Sir Ernest Bain, Mr. Alexander Campbell, Mr. Morton Latham, Sir Algernon Firth. D.Litt.—Rt. Rev. W. H. Frere, Lord Bishop of Truro, Miss Lucy Lowe, Mr. W. Edwards. D.Sc.—Emeritus Professor T. W. Griffith.

**STUDENTS.** Full-time: total, 1385, including 188 graduates. Part-time, 144, including 17 graduates.

**DEGREES.** B.A., 94; B.Com., 7; LL.B., 17; M.A., 13; M.Ed., 5; M.Com., 2; LL.M., 1; B.Sc., 119; M.Sc., 11; Ph.D., 8; D.Sc., 3; M.B., Ch.B., 32; B.Ch.D., 1; M.D., 5.

# UNIVERSITY OF LIVERPOOL

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. the EARL OF DERBY, K.G., G.C.B., G.C.V.O., LL.D.

PRO-CHANCELLORS—H. R. RATHBONE, M.A., LL.D.; H. WADE DEACON, C.B.E.

VICE-CHANCELLOR—H. J. W. HETHERINGTON, M.A., LL.D.

TREASURER—C. SYDNEY JONES, M.A.

DEANS OF FACULTIES. See under "General Information"—Faculties.

REGISTRAR—EDWARD CAREY, LL.B.

BURSAR AND ASSISTANT REGISTRAR—S. PRYCE PARRY, M.A.

LIBRARIAN—Associate Prof. W. GARMON JONES, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Anatomy</i>	[Derby Prof.	Budden, L. B., M.A., F.R.I.B.A.
Wood, W. H., B.Sc., M.D. Manc.		Assoc. Prof.
Lectrs. :		
Nuttall, H. C. W., F.R.C.S.,		Marshall, J. E., B.Arch. Sr. Lectr.
D.P.H. (Appl. Surg. A.).		Cole, E. R. F., B.Arch. Lectr.
Johnson, W., M.D. Lond., F.R.C.P.		Scott, Sir Giles G., LL.D., R.A.,
(Appl. Med. A.).		F.R.I.B.A. (Eccl. Archit.)
Jones, J. Tudor, M.B., Ch.B.		Reader.
Malpas, P., M.B., Ch.M., M.R.C.S.		Miller, B. A., B.Arch. Lectr.
Demr.		Dougill, W., M.A., B.Arch. Lectr.
<i>Archæology</i> , v. also Palæog. and		Bridgwater, D. L., B.Arch. Lectr.
Associated Institutions		Brooke, D., M.A., B.Arch. Lectr.
Droop, J. P., M.A. Camb. (Classi-		Velarde, F. X., Dipl. Arch. „
cal A.) C. W. Jones Prof.		Ellerton, E. M. K. „
Peet, T. E., M.A. Ox. (Egyptology)		Nunn, J. P., B.A. „
Brunner Prof.		Penn, W. C., R.O.I. (Drawing
Garstang, J., M.A., D.Sc., B.Litt.		from the Life) Instr.
Ox., F.S.A. (Methods and		Smith, H. Tyson
Practice of A.) Rankin Prof.		Hon. Instr. in Craftsmanship.
Barnard, F. P., M.A., D.Litt. Ox.,		<i>Art of the Theatre</i>
F.S.A. (Mediæval A.) Reader.		Dukes, Ashley Shute Lectr.
Newberry, P. E., M.A. (Egyptian		<i>Astronomy</i>
Art) Reader.		Reader.
<i>Architecture</i> , v. also Civ. Design,		
Engin.		<i>Bacteriology</i> , v. Med.
Reilly, C. H., O.B.E., M.A. Camb.,		<i>Bio-Chemistry</i>
F.R.I.B.A. Roscoe Prof.		Ramsden, W., M.A., D.M. Ox.
		Johnston Prof.

Coope, R., M.D., Ch.B., B.Sc.  
(Clin. Chem.) Lectr.  
Brookfield, R. W., M.D., D.P.H.  
M.R.C.S., M.R.C.P.  
Johnston Colonial Fellow.

*Botany*

Thompson, J. McLean, M.A., D.Sc.  
Glas., F.L.S.

H. Gaskell Prof.

Knight, Margery, D.Sc., F.L.S.  
Sr. Lectr.

## Demrs. and Lectrs. :

Stirling, J., B.Sc. St. And.  
Mathias, W. T., M.Sc. Wales  
Horton, W.  
Hon. Lectr. in Plant Path.

*Chemistry*, v. also Bio-C.

Baly, E. C. C., C.B.E., M.Sc.,  
F.R.S. (Inorg. C.) Grant Prof.  
Heilbron, I. M., Ph.D. Leip., D.Sc.  
Glas., F.I.C.

H. Harrison Prof. (Org. C.).

Lewis, W. C. McC., M.A. Belf.,  
D.Sc., F.R.S., F.Inst.P.  
(Physical C.) Brunner Prof.

Hilditch, T. P., D.Sc.,  
Campbell-Brown Prof.  
(Industrial Chem.—  
Fats, Waxes and Oils).

## Senr. Lectrs. :

Kay, F. W., M.Sc. Manc., Ph.D.  
Berl. (Applied Organic C.)  
Guthrie, F. C., M.A., F.I.C. (Ana-  
lytical).

## Lectrs. and Demrs. :

Edwards, D. M., B.Sc. (Inorg.).  
Griffith, R. O., D.Sc., (Phys.).  
Shutt, W. J., M.Sc. (Phys.).  
M'Keown, A., D.Sc. (Phys.).  
Doran, W., M.Sc. (Organ.).  
Keffler, L. J. P., M.Sc. (Inorg.).  
Nance, J. T., M.A. (Inorg.).  
Occleshaw, V. J., M.Sc. (Inorg.).  
Morton, R. A., Ph.D., D.Sc.  
McGookin, A., Ph.D., B.Sc. (App.  
Org.).  
Rogerson, H., M.Sc. Vict., F.I.C.  
(Inorg.) Demr.

*Chemistry, Pub. Health*  
Roberts, W. H., M.Sc., F.I.C.  
Assoc. Prof.  
Jones, E. Gabriel, M.Sc., F.I.C.  
Smith, F. J., B.Sc. Lectrs.

*Civic Design*

Abercrombie, L. P., M.A.,  
F.R.I.B.A. Lever Prof.

## Special Lectrs. :

Prof. E. W. Hope (Hygiene).  
Frank, T. Peirson, M.Inst.C.E.,  
F.S.I. (Civic Engin.).  
Baxter, R. G., M.A. (Civic Engin.).  
Kelly, S. A., F.S.I. (Civic Engin.).  
Mattocks, R. H. (Landscape  
Design).  
Clarke, J. J., M.A., (Law of Housing  
and Town Planning).  
Dougill, W., M.A., B.Arch.,  
A.R.I.B.A. Research Fellow.

*Classics*

Campbell, A. Y., M.A. Camb.  
(Greek) Gladstone Prof.  
Fletcher, G. B. A., B.A.

Junr. Lectr.  
Slater, D. A., M.A. Ox., F.B.A.  
(Latin) Prof.  
Chapman, Dorothy, M.A. St. And.  
Spl. Lectr. (Latin).  
Noble, P. S., M.A. Aberd. and  
Camb. Lectr. (Latin).  
Onians, R. B., M.A., Ph.D.  
Lectr. (Latin).

*Commerce*

[Chaddock Prof.  
Dewsnup, E. R., M.A. Manc.  
Dumbell, S., M.A. Lectr.  
Miller, Margaret S., M.A., B.Com.,  
Ph.D. Lectr.  
Taggart, P., F.S.A. (Accountancy)  
Spl. Lectr.  
Mort, J. H. (Banking) Spl. Lectr.  
Irving, N. (Ind. Traffic Manage-  
ment) Spl. Lectr.

*Dentistry*, v. *infra**Economic Science*, v. also Com.

..... Brunner Prof.  
Macdonald, R. A., M.A.  
Lectr. in charge.

Morris, J. H., B.Sc. Lond. (Econ.)

Temp. Lectr. in Ec. Hist.

Parry, Eliz. A., M.A. Tutor.

*Education*, v. also Hist., Physics

Campagnac, E. T., M.A. Ox. Prof.

Senr. Lectrs. :

Paget, G. W., M.A. Camb.

Brigstocke, W. O., B.A. Lond.

Lectrs. :

Collie, Frances A., M.A. Wales.

Kermode, Helen S., M.A.

Attlee, C. M., B.A. Ox.

Titley, A. F., B.Sc., D.Phil.

Pollitt, A. W., Mus.Doc. Durh.,

F.R.C.O.

Teachers of Drawing :

Laverock, Florence H.

Cameron, Elizabeth L.

Asst. in Method :

Milne, Susan.

*Engineering*, v. *infra*

*English Lang. and Philol.*

..... Baines Prof.

Schram, O. K., M.A. Wales.

Ph.D. Camb. Jr. Lectr.

*English Lit.*

Martin, L. C., B.Litt. Ox., M.A.

King Alfred Prof.

..... A. C. Bradley Prof.

Shawcross, J., M.A. Ox.

Senr. Lectr.

Trenery, Grace R., M.A. Lectr.

McIlwraith, A. K., B.A. Ox.

Jr. Lectr.

Jones, Doris C., M.A. Tutor.

*Entomology* [Dutton Prof.

Patton, W. S., M.B., Ch.B. Edin.

Evans, Alwen M., M.Sc. Lectr.

*Fisheries*, v. Ocean.

*French* [J. Barrow Prof.

Egglis, J. E., Ag. des L., D. ès L.

Renault, G. E., B. ès A. Dijon.

Senr. Lectr.

Mayoux, J., Ag. d'Ang. Lectr.

Wright, Jean, M.A. Lectr.

3 French Tutors.

*Geography*, v. also Geol.

Roxby, P. M., B.A. Ox.

Rankin Prof.

Winchester, Lily, M.A., F.R.Met.S.

Lectr.

Smith, W., M.A. Jr. Lectr.

Baker, S. J. K., B.A. Tutor.

Ellerton, M. K., Cartographer.

*Geology* [Herdman Prof.

Boswell, P. G. H., O.B.E., D.Sc.

Lond. (Lectr. *Geo-Morphol.*)

Lectrs. and Demrs. :

Double, I. S., M.Sc.

Neaverson, E., D.Sc. (Palæont.).

*German*

Collinson, W. E., M.A. Lond.,

Ph.D. (also Hon. Lectr. in

Comp. Philol.) Prof.

Picton, Enid, B.A. Wales Lectr.

*Hebrew*, v. Affild. Instns.

*Hellenistic Gk.*, v. Affild. Instns.

*History* [Assoc. Prof.

Jones, W. Garmon, M.A.

*Hist., Ancient*

Ormerod, H. A., M.C., M.A. Ox.

Rathbone Prof.

*History, Eccl.*, v. Affild. Instns.

*History, Mediæval*

Coopland, G. W., B.Sc. Lond.,

M.A., Litt.D. Assoc. Prof.

McKisack, May, M.A., B.Litt. Ox.

Jr. Lectr.

*History, Modern*

Veitch, G. S., M.A., Litt.D.

A. Geddes & J. Rankin Prof.

Lectrs. :

Routledge, F. J., B.Litt. Ox., M.A.

Howden, Marjorie P., M.A.

Betts, R. R., B.A. Ox.

Goodwin, A., B.A. Ox.

*Italian*

Praz, Mario, D.Litt. Florence,

Dr. Jur. Rome Senr. Lectr.

*Law*, v. also Civic and Engin.

Blease, W. Lyon, LL.M., Barr.-at-

Law Q. Vict. Prof.

Batt, F. R., LL.M., Barr.-at-Law

(Comm. L.) Prof.

Shawcross, H. W., Barr.-at-Law  
Warr Mem. Lectr.

Brown, H., M.A., LL.B. (History  
of English Law, etc.) Lectr.

Thomas, Judge A. P., B.A., LL.D.  
Lond. (Internat. L.)  
Hon. Prof.

*Mathematics* [Prof. (Pure M.)]  
Titchmarsh, E. C., M.A. Ox.

Proudman, J., M.A. Camb., D.Sc.,  
F.R.S. (Applied M.) Prof.

Hargreaves, R., M.A. Camb. (Ap-  
plied M.) Reader.

Street, R. O., M.A. Camb., M.Sc.  
(Applied M.) Sr. Lectr.

Doodson, A. T., D.Sc. (Analysis  
of Observations) Hon. Lectr.

Wilson, B. M., M.A. Camb. D.Sc.  
Lectr. (Pure M.).

Bradley, F. W., B.Sc.  
Haslam-Jones, U. S., B.A. Ox.,  
B.Sc. Lond.

Jr. Lectrs. (Pure M.).  
Grace, S. F., D.Sc.

Lectr. (Applied M.).

### *Medicine, v. infra*

#### *Music*

Whittaker, W. G., D.Mus. Dur.,  
F.R.C.O. Alsop Lectr.

### *Naval Archit., v. Engin.*

#### *Oceanography*

Johnstone, J., D.Sc. Lond. Prof.  
Daniel, R. J., M.Sc. Lectr.

Jenkins, J. T., D.Sc. Lond., D.Sc.  
Wales, Ph.D. Kiel (Sea  
Fisheries) Hon. Lectr.

Scott, A., M.Sc., (Econ. Ichthyol.)  
Hon. Lectr.

Chadwick, H. C., M.Sc. (Marine  
Biol.) Hon. Lectr.

### *Palaeography and Diplomatics*

Twemlow, J. A., M.A. Ox.  
Assoc. Prof.

#### *Parasitology*

Blacklock, D. B., M.D., D.P.H.,  
D.T.M. W. Myers Prof.

Southwell, T., A.R.C.Sc.  
Lectr. (Helminthology).

### *Philology, Comparative, v. Ger- man*

#### *Philosophy*

Dorward, A. J., M.A. Edin. and  
Camb. Prof.

Reid, L. A., M.A. Edin., Ph.D.  
Senr. Lectr.

Turner, J. E., M.A., Ph.D.  
Reader.

#### *Physics* [L. Jones Prof.]

Wilberforce, L. R., M.A. Camb.

Rice, J., M.A. Belf. (Spl. Lectr. in  
*Educn.*) Assoc. Prof.

#### Lectrs. and Demrs. :

Ablett, R., M.Sc.  
Beevers, C. A., B.Sc.

Edwards, E., B.Sc. Wales, M.A.  
Tor.

Roberts, R. W., M.Sc.  
Stewardson, E. A., M.Sc.  
Oliver Lodge Fellow.

#### *Physiology*

Macdonald, J. S., M.A. Camb.,  
F.R.S. Holt Prof.

#### Lectrs. :

Duffield, F. A., M.B., Ch.B. Edin.  
Waller, W. W., B.A., B.M. Ox.

Chamberlain, E. N., M.D., M.Sc.  
Wadsworth, T. W., M.D., D.P.H.

(Appl. Physiol.).  
Walker, C. E., D.Sc., M.R.C.S.,  
L.R.C.P. (Histology).

Tozer, Frances M., B.Sc. Lond.  
(Histology and Cytology).

Follows, J. H., M.B., Ch.B.  
Holt Fellow.

#### *Protozoology*

Adams, A. R. D., M.B., Ch.B.,  
D.T.M. Lectr.

#### *Russian Studies*

Boswell, A. B., M.A.  
Bowes Prof. of R. Hist.  
Lang. and Lit.

Slepchenko, B. S. Recog. Teacher.

#### *Social Science*

Carr-Saunders, A. M., M.A. Ox.  
Charles Booth Prof.

Jones, D. Caradog, M.A. Camb.  
 Sr. Lectr. in Social Statistics.  
 Black, Ellinor I., B.Sc. Lond.  
 Lectr. in Social Science.  
 Wilkinson, Katie E. Spl. Tutor.

### *Spanish*

Peers, E. Allison, M.A. Camb. and  
 Lond. Gilmour Prof.  
 Zarco, A. M., Lic.-en-let.  
 Tempy. Lectr.

### *Vet. Science*

Share-Jones, J., D.V.Sc., M.Sc.,  
 F.R.C.V.S., Dir. of Vet. Studies  
 Prof. of V. Anat.  
 Gaiger, S. H., F.R.C.V.S., Prof.  
 (Diseases of Animals).

### *Lectrs. :*

Davies, G. O., B.V.Sc., M.R.C.V.S.  
 Annett, H. E., M.B.E., M.D.,  
 D.P.H.

Elam, C. W., D.V.H., M.R.C.V.S.  
 Hughes, H. V., B.V.Sc.

Isherwood, R., M.R.C.V.S.  
 Mattinson, A. B., O.B.E.,  
 F.R.C.V.S., D.V.S.M. Vict.

Shuttleworth, A. C., B.V.Sc.  
 Jr. Lectr.

Downham, K. D., B.V.Sc.,  
 M.R.C.V.S., D.V.H., Vet. Ad-  
 viser Clin. Lectr.

### *Welsh*

Davies, J. Glyn, M.A. Assoc. Prof.  
 Owen, E., M.A., F.S.A.

(Welsh Mediæval Antiq.) Reader.

*Zoology*, v. also Entom., Ocean.,  
 Parasit., Protoz.

Orton, J. H., D.Sc. Lond., F.L.S.  
 Derby Prof.

Burfield, S. T., B.A. Camb., M.Sc.,  
 F.L.S. Sr. Lectr.

### *Lectrs. and Demrs. :*

Bisbee, Ruth C., M.Sc.  
 Fordham, M. G. C., M.Sc. W. Aus.

## **Engineering**

### *Civil Engineering*

Perrott, S. W., M.A.I. Dub. Prof.  
 Whitaker, H. A., B.Eng. Lectr.

### *Lectrs. and Demrs. :*

Hitchens, A. P., B.Eng. (also  
 Lectr. Design and Draw.).

Webster, F., M.C., M.Eng.

### *Dock and Harbour Engineering*

Wilton, T. R., M.A. Camb.  
 Assoc. Prof.

### *Electrical Engineering*

Marchant, E. W., D.Sc. Lond.  
 Jardine Prof.

Teago, F. J., D.Sc. Durh. (Elect.  
 Machinery) Rankin Prof.

### *Lectrs. :*

Prescott, J. C., M.Eng.  
 Waygood, O. C., M.I.E.E.  
 Brookes, R. C., B.A. Camb.

### *Industrial Economics*

The Prof. of Commerce Lectr.

### *Law, Engineering*

Gordon, C. G. S., LL.B. Lectr.

### *Marine Engineering*

Lectrs. : The Prof. of Mech. E.,  
 the Prof. of Appl. Mech., the  
 Prof. of Nav. Arch.

### *Mechanical Engineering and Applied Mechanics*

Scholes, G. E., M.B.E., M.Sc.  
 Manc.

Harrison Prof. (Mech. E.).

Mason, W., D.Sc. Manc. (Applied  
 Mechanics) Hughes Prof.

Mawson, H., D.Sc. (Eng.) Lond.,  
 A.R.C.S.

Sr. Lectr. (Mech. Engin.  
 and Hydraul. Mach.).

Clark, J. J., M.Eng.  
 Lectr. (Design & Drawing).

Okill, J., M.Eng. Lectr.

Kearton, W. J., M.Eng. Lectr.

Cole, E. B., M.Sc. Bris. Lectr.

Smith, G., M.Sc. Lectr.

### *Metallurgy*

Bannister, C. O., M.Eng., A.R.S.M.  
 (also Lectr. in Dental M.)

Wortley Prof.

Kennett, S. J., B.Sc., A.R.S.M.

Lectr.

*Municipal Engineering*

Brodie, J. A., M.Eng. Assoc. Prof.

*Municipal Electrical Engineering*

..... Hon. Lectr.

*Naval Architecture*Abell, T. B., O.B.E., M.Eng.,  
R.C.N.C. (ret.)

A. Elder Prof.

Wilson, J. C. M., M.Eng., R.N.C.  
Lectr. & Demr.*Railway Engineering*Aspinall, Sir J. A. F., D.Eng.  
Assoc. Prof.Medicine (for subjects of first 2  
yrs.—Anat., etc., v. *supra*)*Bacteriology*Beattie, J. M., M.A. N.Z., M.D.,  
C.M. Edin. Prof.

Lectrs. :

Ashcroft, L. S., M.B., Ch.B.,  
D.P.H.Gray, J. D. A., M.B., Ch.B.  
(Pub. Health Bact.).*Cytology*, v. also PhysiologyWalker, C. E., D.Sc., M.R.C.S.,  
L.R.C.P. Assoc. Prof.

Tozer, Frances M., B.Sc. Lectr.

*Dermatology*MacKenna, R. W., M.A., M.D.  
Edin. Lectr*Diseases of Children*

Fordyce, A. D., M.D. Edin. Lectr.

*Diseases, Infectious*Rundle, C., O.B.E., M.D. Lond.,  
D.P.H. Lectr.*Diseases, Mental*Reeve, E. F., M.B., B.S. Lond.  
Lectr.*Diseases, Specific*Stopford-Taylor, R., D.S.O., M.B.  
Lectr.*Forensic Medicine and Toxicology* [Prof.MacFall, J. E. W., M.D., D.P.H.  
Jones, T. J., M.B., Ch.B. Demr.*Hygiene*Hope, E. W., O.B.E., M.D., D.Sc.  
Edin. Prof.Mussen, A. A., B.A., M.D. Dub.,  
D.P.H. (Practical San.) Lectr.

Lectrs. in Pub. Health Admn. :

Hanna, W., M.A., M.D. Belf.,  
D.P.H. (Admn. and Vaccn.).Stallybrass, C. O., M.D., B.S.,  
D.P.H.*Laryngology*

..... Hon. Lectr.

*Mat. Med. and Pharmacy*Marsden, P. H., M.Sc., F.C.S.  
Lectr.*Medicine*Hay, John, D.L., M.D., F.R.C.P.  
Prof. & Clin. Lectr.Matthews, J. C., M.A., M.D.,  
F.R.C.P. Lectr.

Chamberlain, E. N., M.D. Lectr.

Clinical Lectrs. :

Bligh, J. Murray, M.D.

Capon, N. B., M.D.

Gullan, A. G., M.D. Lond.,  
F.R.C.S.

Johnson, W. (v. Anat.).

Jones, H. Wallace, M.Sc., M.D.

Pemberton, H. S., M.B.

*Midwifery and Gynæc.*Bell, W. Blair, M.D., B.S. Lond.,  
F.R.C.S. Prof. & Clin. Lectr.Robinson, A. L., M.D., F.R.C.S.  
Lectr. & Clin. Lectr.

Herd, S. B., M.D. Asst. Lectr.

Datnow, M. M., M.B., Ch.B.  
Senr. Demr.Griffith, Gwyneth, M.B., Ch.B.  
Jnr. Demr. and Boyce Fellow.

Clinical Lectrs. :

Ivens, Mary H. F., C.B.E., Ch.M.,  
M.B., M.S. Lond.

Murray, H. Leith, M.D. Aberd.

Willett, J. H., M.D.

*Neuro - Pathology of Mental Diseases*Watson, G. A., M.B., C.M. Edin.  
Hon. Lectr.

*Ophthalmology*

Chavasse, F. B., M.A., M.D.,  
D.O.M.S. Ox. Lectr.

*Pathology*

Dible, J. H., M.B., Ch.B. Glas.,  
F.R.C.P. Holt Prof.

Gleave, H. H., M.B., Ch.B.  
Senr. Lectr.

Evans, W. Howel, B.Sc., M.B.,  
Ch.B. (H.) Lectr.

Davie, T. B., M.B., Ch.B.,  
M.R.C.S., L.R.C.P.

Junr. Lectr.  
Clouston, G. S., M.B., Ch.B.

Holt Fellow.

*Pharmacology and Genl. Therapeutics*, v. also Mat. Med.

Dilling, W. J., M.B., Ch.B. Aberd.  
Assoc. Prof.

Cohen, H., M.D.  
Lectr. (Practical Therap.).

Sadler, Eileen S., M.Sc.  
Research Asst.

*Public Health*, v. Hyg. and Chem.*Radiology*

Holland, C. T., D.L., Ch.M. Lectr.  
Asst. Lectrs. :

Mather, J. H., M.B., Ch.B., B.Sc.,  
D.M.R.E.

Roberts, R. E., M.D., B.Sc.,  
D.M.R.E.

*Surgery*

Parker, R., M.B., B.S. Lond.,  
F.R.C.S. Prof.

Kelly, R. E., C.B., M.D., B.Sc.,  
F.R.C.S.

Prof. and Clin. Lectr.

Jones, Sir Robert, Bart., K.B.E.,  
C.B., Ch.M., D.Sc., F.R.C.S.  
(Orthop.)

Lectr. and Clin. Lectr.

Monsarrat, K. W., M.B., C.M.  
Edin. (Operative S.)

Lectr. and Clin. Lectr.

Kennon, R., M.D., F.R.C.S.  
(Practical S.) Lectr.

Wells, C. A., M.B., Ch.B., F.R.C.S.,  
Demr.

Jones, E. W., M.B., Ch.B.

Thelwall Thomas Fellow.

McFarland, B. L., M.D., M.Ch.  
Orth. Lady Jones Fellow.

## Other Clinical Lectrs. :

Armour, T. R. W., M.B., C.M.  
Edin., F.R.C.S.

Dun, R. C., M.B., C.M., F.R.C.S.,  
B.Sc.

Evans, A. J., F.R.C.S. Edin.

Heaney, F. Strong, M.A., M.D.  
Dub.

Simpson, G. C. E., B.A., M.B.,  
B.C. Camb., B.Sc., F.R.C.S.

McMurray, T. P., Ch.M. Belf.

Morrison, J. T., M.B., Ch.B.

Jeans, F. A. G., M.A., M.B., B.Ch.  
Camb., F.R.C.S.

Williams, O. Herbert, M.B. Edin.,  
F.R.C.S., D.P.H. Ox.

Wolfenden, H. F., M.D., F.R.C.S.

*Tropical Med.*

Yorke, W., M.D., M.R.C.P.

Sir A. Jones Prof.

*Tropical Diseases of Africa*

.....

*Tropical Sanitation*

Russell, Lt.-Col. A. J. H., C.B.E.,  
M.A., M.D.

*Vaccination*, v. Hygiene*Dentistry**Dental Surgery*

Gilmour, W. H., M.D.S., L.D.S.,  
LL.D. (Penn.) (Dir. of D.  
Educn.) Cohen Prof.

Wynne, J. S., L.D.S. Demr.

Taylor, C. H., B.D.S. Demr.

Plumpton, S., L.D.S. Demr.

*Anæsthetics*

Smith, G. F. R., M.B., B.S. Lond.,  
M.D. Lectr.

Clothier, B., L.D.S. Demr.

*D. Anat., Histol., and Physiol.*

Woods, J. A., M.D.S., L.D.S.

Lectr.

Guyler, T. W. C., B.D.S. Demr.

<i>D. Mechanics</i>	[Lectr.	<i>Clin. D. Surgery</i>
Osborn, L. J., M.D.S., L.D.S.		7 Lectrs.
Fairhurst, R., B.D.S., L.D.S.		<i>Orthodontia</i>
	Demr.	Mountford, E. H., L.D.S. Lectr.
<i>D. Metallurgy</i> , v. Met.		Roberts, O. P., L.D.S. Demr.
<i>Operative D. Surgery</i>		University Extension
Bennette, H. W. P., M.D.S.,	Secy. to the Univ. Extension	
L.D.S.	Lectr. Board :	
Wynne, J. S., L.D.S.	Demr. E. Hickinbotham, B.A.	

## ASSOCIATED AND AFFILIATED INSTITUTIONS

INSTITUTE OF ARCHÆOLOGY, Abercromby Square, Liverpool. Associated Teachers additional to the staff of the Faculty—*Assyriology*, Pinches, T. G., LL.D.; *Numismatics*, Milne, J. G., M.A.; *Central American Arch.*, Gann, T. W. F., M.R.C.S., L.R.C.P.

LIVERPOOL OBSERVATORY AND TIDAL INSTITUTE. Observatory est. 1845, Tidal Institute, 1919. Administered by a Joint Committee representing the Univ. Council and the Mersey Docks and Harbour Board. Director, Prof. J. Proudman, M.A., D.Sc., F.R.S. Assoc. Dir., A. T. Doodson, D.Sc.

ST. AIDAN'S COLLEGE, Birkenhead. Principal, Rev. F. B. Heiser, M.A. Ox. Affil. for first year of degree course and, in subjects in which instruction is not provided in the Univ., up to half of the entire course for the B.A.

Recognized Teachers in—*Hellenistic Greek*, . . . . .; *Eccl. Hist.*, Heiser, F. B., M.A.; *Hebrew*, Keith, K. E., M.A.

EDGE HILL TRAINING COLLEGE. Principal, Miss E. M. Smith. Recognized Teachers in—*Maths.*, Smith, Miss E. M.; *English Lit.*, Deakin, Miss M. H., M.A.

MOUNT PLEASANT TRAINING COLLEGE. Principal, Miss C. Holcroft, M.A. Recognized Teachers in—*Latin*, Sampson, Miss M., M.A.; *English Lit.*,

TRAINING COLLEGE, Chester. Recognized Teachers: Thomas, R. A., O.B.E., M.A., Principal (in *Maths.*); Hooper, F. W., B.Sc., A.I.C. (in *Chem. and Physics*); Lewis, W. E., B.A. (in *Maths. and Physics*).

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool. Ward for Tropical Diseases at Royal Infirmary, Liverpool. Departs with research labs. at Manaos and Sierra Leone. For training in the conduct of original research and organization of prophylactic measures. Has sent numerous expeditions to tropical countries. Publishes *Memoirs* and *Annals*. For staff, v. *supra*—Trop. Med., Trop. San., Parasit., Entom., Hygiene. D.T.M. course, 3 mos. D.T.H. course, 3 mos. after taking D.T.M.

PATHOLOGICAL LABORATORY, County Mental Hospital, Rainhill.

## GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it.

LIBRARY, MUSEUMS, ETC. The library of the Univ. contains about 109,000

vols., and includes among special collections great series, such as Migne, Pertz, Muratori, and Acta Sanctorum. Among rarer possessions are the Rylands collection of early works on Geography and Astronomy, a collection of works by and about William Blake, sets of the Roxburghe, Bannatyne, and Maitland Clubs, a unique number of Aldines, and over 100 incunabula, among them the final sheets of the *Constitutiones* of Clement V. printed at Mainz in 1460. Special bibliographies have been issued. In addition there are twenty-three Class Libraries in the Faculty of Arts and External Departmental Libraries for the Medical and Science Departments.

The following are the principal MUSEUMS AND LABORATORIES: Anat., Archæol. (including a unique Hittite collection), Archit., Bact., Bio-Chem., Bot., Chem., Physical and Electro-Chem., Electricity (Applied), Embryol. and Genetics, Engin. (including facilities for aerial motor and propeller testing and other wind experiments), Geol., Hygiene, Laryngology, Materia Medica, Expl. Med., Trop. Med. (including museum, animal houses, and specially warmed glass insectarium, and research labs. at Liverpool, Sierra Leone, and Manaos), Obst. and Gynæc., Oceanog., Ophth., Path., Physics, Physiol. and Histol., Surg. Path., Tidal Research, Toxicology, Vet. Anat. and Path., Zool. The Port Erin (Isle of Man) Marine Biol. Lab. has been transferred to the Univ. by an Act of Tynwald. HOSPITALS. available for Clinics, 4 general and 5 special, containing 1445 beds, which together constitute the clinical school. The trade of the port ensures frequent cases of infection. Special wards for Trop. Diseases. Expeditions to Tropical countries organized for investigation or advice. Suitably qualified persons may enter the Labs. for research at prescribed fees.

FACULTIES. (1) Arts (with Schools of Archit., Social Sciences and Administration (including Economics, Commerce, Geography, and Social Science), Local History and Records, Russian Studies; Departments of Civic Design and Educn.); (2) Science; (3) Medicine (with Schools of Dent. Surg., Hygiene, Trop. Med., Vet. Sc.); (4) Law; (5) Engineering. *Deans*: (1) Prof. A. Bruce Boswell (Russian), (2) S. T. Burfield (Zool.), (3) W. J. Dilling (Pharmacology), (4) Prof. Batt (Commercial Law), and (5) Prof. Scholes (Mech. Engin.). Director of Dental Educn., Prof. Gilmour; of Veterinary Studies, Prof. J. Share-Jones.

MATRICULATION. See Appendices XX. and XXI.

DEGREE COURSES: 3 yrs., B.A., B.Com., B.Sc., LL.B.; 3 or 4 yrs., B.Eng. (*plus* 2 yrs.' appr'ship); 5 yrs., B.Arch., B.V.Sc.; 6 yrs., M.B., Ch.B.; not less than 5 yrs., B.D.S.

The B.Com. courses include (1) General Business; (2) Banking, Insurance, Accounting; (3) Transport, Railways, Shipping; (4) Consular Service.

The LL.B. courses prepare for the Bar and solicitors' exams. as well as for the Degree. The B.V.Sc. may be taken concurrently with the M.R.C.V.S.

HIGHER DEGREES: Ph.D., v. p. 18. (1) *Graduates of Liverpool in Faculty concerned*. Obtainable after Bachelorship: 1 yr., (after Hons. B.Sc.) M.Sc.; 15 mos., M.Ch. Orth.; 2 yrs., M.A., M.Com. (after ord. B.Sc.), M.Sc. (2 yrs. by thesis, 5 yrs. by examn.), M.D., Ch.M., M.H. (Hygiene), M.D.S., M.V.Sc., LL.M., M.Eng. After Mastership: 5 yrs., D.Litt., D.V.Sc., LL.D. After Mastership or Ph.D.: 5 yrs. after M.Sc., 4 yrs. after Ph.D. (Science), D.Sc. (5 yrs. after M.Sc. or Ph.D. Engin.), D.Eng.; 10 yrs., after B.Arch., on distinguished archit. work, M.Arch. (2) *Graduates of approved Univs.* After Bachelorship and 2 yrs.' higher study or research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Com., M.Sc., M.H., M.V.Sc., LL.M., M.Eng. The M.A. and M.Com. are also open under certain conditions to B.Arch. and grads. in Liv. Univ. of a Faculty other than Arts. (3) *Non-Graduates*. After 3 yrs.' higher study or research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Sc., LL.M., M.Eng.

The M.Ch.Orth. is open to grads., other than Med., of this or approved Univs. who are F.R.C.S. (Eng., Ed., or I.) or Fellows of the American Coll. of Surg.

**DIPLOMAS.** Archæol., 1 yr. course; Archit., 5 yrs.; Civic Design, 1 yr.; Commerce, 3 yrs.; Social Science, 1 or 2 yrs.; Educn. (for grads.), 1 yr.; Geography, 2 yrs.; L.D.S., 4 yrs.; D.P.H., 1 yr.; D.T.M., 3 mos.; D.T.H., 3 mos. (after taking D.T.M.); D.M.R.E., 2 terms; D.V.H., 6 mos.; Engin., 2 yrs. after final examn. for Certif.

**CERTIFICATES.** Archæology, 2 yrs.' course; separate Arts subjects, 2 yrs.; Architectural Design, 1 yr.; Civic Design, 2 terms of 2 sessions; Social Science, 1 or 2 yrs. (qualification for entry lower than for Diploma course); Educn., 1 yr.; Engin., 3 yrs. (2 yrs. for candd. who have taken appd. techn. course); Univ. extension courses, 3 yrs.

**FEES.** For Matricn., £2. Guild of Undergrads., £2:10s. p.a. **DEGREE COURSES:** B.A., or B.Com. (3 yrs.), £90; M.A. or M.Com. (sessional), £5; B.Arch. (5 yrs.), £150; B.Sc. (3 yrs.), £105 to £160; M.Sc. (sessional), Maths., £5; other subjs., £10; M.B., Ch.B. (6 yrs.), £260; M.D. (sessional), £10; Ch.M. (2 yrs.), £20; M.H. (2 yrs.), £80; M.Ch.Orth. (15 mos.), £41; B.D.S. (5 yrs.' complete course in the University), £250; M.D.S. (2 yrs.), £27 or £32; B.V.Sc. (5 yrs.), £175; M.V.Sc., 1st yr., £30, 2nd yr., £20; LL.B. (3 yrs.), £50; LL.M. (sessional), £5; B.Eng. (3 or 4 yrs.), £144-£192; M.Eng. (Research), £20; Ph.D. (2 or 3 yrs.), £27 or £40:10s. Apparatus fee per session, £10. **DIPLOMA COURSES:** Archit. (5 yrs.), £150; Civ. Des. day, £35; Educ. (1 yr.), £20; Com. (3 yrs.), £90; Soc. Science (2 yrs.), £28; Archæol. (1 yr.), £10; Geography (2 yrs.), 1st yr., £20, 2nd yr., £10; D.P.H. (1 yr.), £45; D.T.M. (3 mos.), £21; D.T.H. (3 mos.), £10:10s.; D.M.R.E. (2 terms), £24:5s.; L.D.S. Liv. (complete course in the University) (4 yrs.), £198; M.R.C.V.S. (4 yrs.), £120; D.V.H. (6 mos.), £21; Eng., £96. **CERTIFICATE COURSES:** Archit. Des. (1 yr.), £35; Civ. Des. (2 terms of two sessions), £10; Soc. Science (2 yrs.), £28; Archæol. (2 yrs.), £30; Educ. (1 yr.), £20; Engin. (3 yrs.), £96-£144.

**EXAMN. FEES.** M.B. and Ch.B., B.V.Sc., B.D.S., £15; B.Arch., £5; other Bachelor degrees, £4; Master's degree (examn. or on application), M.H., 10 gs.; Ch.M., M.V.Sc., M.D.S., £5; others, £3; Doctor's (on application), £10. Diploma examns., L.D.S., £15; Comm., £4; Archæol., £3; Educn., Geog., Soc. Science, £2; Eng., £3; others, £5 or 5 gs. Certif. Examns., Eng., £6; others, £2. Degree Admission Fees, £6 for first degree, subsequent degrees, £5; Dipl. Eng., £3; Certif. Eng., £2; others, £1.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Research Fellowships and Scholarships of the aggregate value of over £6000 are offered annually in all faculties; Garrett International Fellowship for Research in Bact., Path., or Physiol. open to members of Univs. and Med. Schools in the U.S.A. and of other foreign schools, £100 for 1 yr. with possible extension 2 yrs. (applications by May 31); Johnston Colonial Fellowship of same value, for research in Bio-Chem. with teaching, open to members of Colonial Univs. and Med. Schools, not excluding Colonial candidates with British qualifications (applications by May 31).

**RESIDENCE, ETC.** Two hostels for 103 men (fees, £70); one for about 90 women (fees from £65 to £72). Students' Union Club House cost £20,000.

**ASSOCIATION OF GRADUATES.** Besides "Convocation"—there is an Old Students' Asscn., with mainly social functions.

A **UNIVERSITY EXTENSION** Board is responsible for extra-mural work. There are travelling libraries for local centres.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Diary* (Oct.), free; *Prospectuses of Faculties and Schools* (July), free; *Students' Handbook* (Oct.), free; *Students' Magazine*, *The Sphinx*, 6d. (4 numbers per session); *Inaugural Lectures*. Issued in 1920, *inter alia*, School of Tropical Medicine Historical Record, 1898-1920, 10s. 6d.; *A Brief Record of Work and Progress*.

## THE YEAR 1928-29

BENEFACTIONS. The late Mr. John Rankin, £10,000 endowment for Lectureship in Hebrew; Pro-Chancellor and Mrs. Hugh R. Rathbone, 4½ acres freehold land (approx. value, £5000) for Univ. Halls of Residence; the late Lady Durning Lawrence, £10,000 for research in the Univ.; Rockefeller Trustees, £5000 for social survey of Merseyside; Trustees of the late Mrs. Ridgway, £2000 endowment for Research Fellowship in Tuberculosis in Children; Lord Beaverbrook, through Mr. Stanley Baldwin, £1000 for research in Medicine; Mrs. J. W. Alsop, £1000 additional endowment for the Alsop Lectureship in Music; two anonymous donors and Messrs. R. Silcock & Sons, Ltd., £6000, £3000, and £1000 respectively for research in the Dept. of Veter. Pathol.; Exrs. of the late Mr. S. C. Helm, £2000 and share in residuary Estate; Mrs. Herbert Harrison, £1000 ("The Herbert P. Harrison Bequest") for the Library Endowment Fund; Sir F. C. Bowring, £700 towards cost of laying-out the Univ. Quadrangle.

NEW BUILDINGS AND SITES. Veterinary Hospital, opened June 28, 1929; Jane Herdman Memorial Geology Building, opened October 21, 1929, 18 acres addition to the Athletic ground; 4½ acres for Halls of Residence.

NEW POSTS AND DEPARTMENTS. Lectureship in Hebrew; Lectureship in the Philosophy of Religion; Administrator of Veterinary Hospital; Res. Surgeon of Veterinary Hospital.

OTHER DEVELOPMENTS. Visits of local authorities and Education Committees to Univ.; visits of 6th form pupils from Secondary Schools of Lancashire and Cheshire; amalgamation of Liverpool Observatory and Tidal Institute under management of a Jt. Committee of Univ. Council and Mersey Docks and Harbour Board; inauguration of Training Coll. Examn. Scheme; re-housing of Dept. of Civ. Eng. in Harrison Hughes Eng. Labs.; re-housing of Dept. of Metall. in rooms vacated by Dept. of Geol.

CHANGES IN REGULATIONS. Degrees of M.B., Ch.B.: course extended to 6 yrs. Degree of M.D.: (a) 2 yrs. after M.B., Ch.B., by thesis, suitable for publication with, if desired, copies of published original papers upon Med. Science. Oral examn. on subject of thesis: (b) 5 yrs. after M.B., Ch.B. by examn. in Med. and in a selected branch of Med. B.D.S.: course extended to *not less* than 5 yrs. Establishment of (1) Board of Studies in Jurisprudence; (2) Board for supervision and control of teaching of Children's Diseases.

EXTRA-MURAL WORK. 184 lectures and courses in 18 centres as well as at Tech. and Sec. Schs. in the area; 58 Tutorial Classes arranged in conjunction with the W.E.A. Students on roll, 1258; series of popular afternoon and evening public lectures at the Univ. Christmas Holiday lectures for boys and girls.

VISITS OF TEACHERS. (a) *Visitors to the University*. Lectures by Dr. T. Ashby, late Dir. of the British Sch. at Rome, the "Campagna Romana"; Mr. H. A. T. Fairbank, Senr. Orthopaedic Surgeon, King's Coll. Hosp., Lond., "Congenital Dislocation of the Hip, with special reference to Anatomy"; M. Emile Cammaerts, "Flemish and Belgian Art and the Exhibition at Bur-

lington House, 1927"; Very Rev. Dr. J. H. Hertz, "The Ancient Semitic Codes in Relation to the Mosaic Legislation"; Prof. Lefebvre (Strasb. Univ.), on "La question agraire en France pendant la Révolution."

(b) *Visits to Other Universities.* Prof. W. E. Collinson: co-operation on Philological Research in America by invitation of the National Auxiliary Language Assn.; lectures by Prof. A. Mawer, at the Univs. of Lyon and Besançon; Assoc. Prof. J. G. Davies, at the Univs. of Upsala and Copenhagen; Prof. E. A. Peers, at Bedford Coll., Univ. of London; Prof. T. E. Peet, at the Egyptian Univ., Cairo.

RETIREMENTS AND DEATHS. Prof. J. C. Birkill, on appt. as Fellow and Lectr., Peterhouse, Cambridge, and Univ. Lectr. in Maths.; Prof. A. Mawer, on appt. as Provost, Univ. Coll., London; Dr. T. Guthrie, Dr. A. D. Harper, Rev. R. T. Howard, Miss E. H. Porter (Miss D. Hamer); Dr. Thirza Redman, on appt. as Pathologist and Bacteriologist, Women's Hosp., Birmingham; Mr. F. S. Warburton. DEATHS: Emer. Prof. R. J. H. Gibson, Emer. Prof. J. MacCunn, Dr. John Owen, Mr. H. F. Richards.

HONORARY DEGREES. LL.D.—Lord Baden-Powell of Gilwell. M.A.—P. M. C. Kermode, J. J. Kneen. M.Sc.—W. Hewitt. M.Eng.—J. E. Lloyd Barnes.

STUDENTS. Full-time: total, 1560, including 165 graduates; part-time: total, 449, including 301 graduates.

DEGREES. M.A., 27; B.A. Hons., 64; B.A. Ord., 52; B.Arch. Hons., 8; B.Arch. Ord., 1; B.Com. Hons., 2; B.Com. Ord., 5; D.Sc., 1; Ph.D. (Sci.), 10; M.Sc., 21; B.Sc. Hons., 46; B.Sc. Ord., 38; M.D., 12; M.B., Ch.B. Hons., 10; M.B., Ch.B. Ord., 31; B.D.S. Ord., 5; LL.M., 9; LL.B. Hons., 6; LL.B. Ord., 5; Ph.D. (Eng.), 1; M.Eng., 13; B.Eng. Hons., 23; B.Eng. Ord., 11.

## UNIVERSITY OF LONDON

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—Rt. Hon. the EARL BEAUCHAMP, K.G., K.C.M.G., P.C.

VICE-CHANCELLOR—Sir GREGORY FOSTER, Bart., B.A., Ph.D.

CHAIRMAN OF CONVOCATION—S. L. LONEY, M.A.

CHAIRMAN OF THE COURT—The Rt. Hon. LORD MACMILLAN, M.A., LL.D. Edin.

PRINCIPAL—EDWIN DELLER, LL.D.

CLERK OF THE COURT—H. CLAUGHTON, C.B.E., B.A.

SECRETARY TO THE SENATE—MAURICE WEBB, C.I.E., B.A. Ox.

ACADEMIC REGISTRAR—S. J. WORSLEY, D.S.O, M.C., B.A.

EXTERNAL REGISTRAR—G. F. GOODCHILD, M.A., B.Sc.

UNIVERSITY EXTENSION REGISTRAR—JOHN LEA, M.A.

SUPERINTENDENT OF EXAMINATIONS—R. B. P. WALLACE, B.A., LL.B. Camb.

GOLDSMITHS' LIBRARIAN—R. A. RYE.

DEANS OF FACULTIES. See under "General Information"—Faculties.

REPRESENTATIVE IN PARLIAMENT—E. G. GRAHAM LITTLE, M.D., B.A.

### *Incorporated Institutions and University Departments*

UNIVERSITY COLLEGE, v. p. 118. SCHOOL OF ARCHITECTURE, v. p. 123.

KING'S COLLEGE, v. p. 126.

GOLDSMITHS' COLLEGE, v. p. 181.

INSTITUTE OF HISTORICAL RESEARCH, v. p. 107.

BROWN ANIMAL SANATORY INSTITN.,  
v. p. 107.

FRANCIS GALTON LABORATORY FOR  
NATIONAL EUGENICS, v. p. 123.

COMMERCE DEGREE BUREAU AND  
APPOINTMENTS BOARD, v. p. 113.

### *Associated Institutions*

36 SCHOOLS OF THE UNIVERSITY.  
THE FACULTY OF LAWS.

22 OTHER INSTITUTIONS HAVING  
RECOGNIZED TEACHERS.

## PROFESSORS, READERS, LECTURERS, ETC.

*Note.*—University teaching is organized under 3 categories: (1) conducted by the Univ. itself; (2) conducted by the several "Schools of the Univ."; (3) conducted at the other Institutions at which there are "Recognized Teachers of the Univ." For explanation of these

terms, see p. 106. The names of teachers of the several subjects will be found in the subsections indicated by letters as follows :

UNIVERSITY COLLEGE, p. 118 (U). KING'S COLLEGE, p. 126 (K).

### *Schools of the University*

IMPERIAL COLLEGE, p. 132 (Im.).	BEDFORD COLL. FOR WOMEN, p. 152 (BW).
EAST LONDON COLLEGE, p. 137 (EL).	ROYAL HOLLOWAY COLL., p. 155 (Ho.).
BIRKBECK COLLEGE, p. 139 (Bk.).	WESTFIELD COLL., p. 156 (Wf.).
LONDON SCH. OF ECONOMICS, p. 141 (E).	KING'S COLL. OF HOUSEHOLD AND SOCIAL SCIENCE, p. 157 (KH).
S.E. AGRIC. COLL., WYE, p. 146 (Ag.).	4 THEOLOGICAL SCHOOLS, p. 158 (Th.).
LONDON DAY TRAINING COLL., p. 148 (Tr.).	21 MEDICAL SCHOOLS, p. 160 (Med.).
SCHOOL OF ORIENTAL STUDIES, p. 149 (O).	

THE FACULTY OF LAWS, p. 177 (Law).

OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS, pp. 178 ff. (RI).

### SUBJECTS TAUGHT

<i>Accountancy and Business Methods</i> (E).	<i>Chemistry, Organic</i> (U, K, Im., BW, RI).
<i>Administration</i> , v. Public (Im., EL).	<i>Chemistry, Pathological</i> (U, Med.).
<i>Aeronautics</i> (O).	<i>Chemistry, Physical</i> (K, Im., BW).
<i>African Languages</i> (Ag., RI).	<i>Chemistry, Physiological</i> (Med.).
<i>Agriculture</i> (O).	<i>Chinese</i> (O).
<i>Albanian</i> (U, K, Med.).	<i>Classics</i> (U, K, EL, Bk., BW, Ho., Wf., Th., RI).
<i>Anatomy</i> (Med.).	<i>Commerce and Industry</i> (E, RI).
<i>Anatomy, Morbid</i> (U, K).	<i>Coptic</i> (U).
<i>Anthropology</i> , v. also Social A. (U, K).	<i>Czecho-Slovak</i> (K).
<i>Arabic</i> (O).	<i>Danish</i> (U).
<i>Aramaic</i> (Th.).	<i>Dental Science</i> (Med.).
<i>Archæology</i> (U, K).	<i>Dutch</i> (U, BW).
<i>Architecture</i> (U).	<i>Economics</i> (U, E, Bk., KH).
<i>Art (Fine Art)</i> (U, K, Ho.).	<i>Economic Geography</i> (U, E).
<i>Astronomy</i> (U, Im.).	<i>Economic History</i> (K, E).
<i>Astrophysics</i> (Im.).	<i>Education</i> (K, Tr., RI).
<i>Aviation</i> (Im., EL).	<i>Egyptology</i> (U).
<i>Bacteriology</i> (KH, Med.).	<i>Embryology</i> (U).
<i>Banking and Currency</i> (E).	<i>Engineering—</i>
<i>Bibliography</i> (K).	<i>Aviation</i> (Im., EL).
<i>Bio-Chemistry</i> (U, Im., Med.).	<i>Chemical Engineering</i> (U, Im.).
<i>Biology</i> (Im., KH, Med.).	<i>Civil Engineering</i> (U, K, Im., EL, RI).
<i>Botany</i> (U, K, Im., EL, Bk., Ag., BW, Ho., Wf., Med., RI).	<i>Electrical Engineering</i> (U, K, Im., EL, RI).
<i>Celtic</i> (U).	<i>Engineering Design</i> (U, Im.).
<i>Chemical Engineering</i> (U, Im.).	<i>Heating and Ventilating</i> (U).
<i>Chemical Technology</i> (Im.).	
<i>Chemistry</i> (U, K, Im., EL, Bk., Ag., KH, BW, Ho., Med., RI).	

*Engineering—Contd.*

- Mechanical Engineering* (U, K, Im., EL, RI).  
*Mining and Power Engineering* (Im.).  
*Municipal Engineering* (U).  
*Optical Engineering* (Im.).  
*Railway Engineering* (U).  
*Surveying* (U, RI).  
*Waterways, Harbours, and Docks* (U).  
*English* (U, K, EL, Bk., E, BW, Ho., Wf.).  
*Entomology* (Im., Ag., Med.).  
*Ethnology* (E).  
*Eugenics* (U).  
*Finance, Public* (E).  
*Forestry* (Im.).  
*French* (U, K, EL, Bk., E, BW, Ho., Wf.).  
*Fruit Culture* (Ag.).  
*Fuel Technology* (Im.).  
*Geography* (U, K, EL, E, Bk., BW).  
*Geology* (U, K, Im., EL, Bk., Ag., BW, RI).  
*German* (U, K, EL, Bk., E, BW, Ho.).  
*Greek, Modern, and Byzantine History* (K).  
*Hebrew* (U, K, Th., RI).  
*Historical Research and Sources of English H.* (v. also p. 122) (K).  
*History* (U, K, EL, Bk., E, O, BW, Ho., Wf., RI).  
*History and Culture of British Dominions in Asia, with Special Reference to India* (O).  
*History and Records of London* (U).  
*History, Imperial* (K).  
*History and Instns., Modern French* (U, E).  
*History, Central European* (K).  
*History of Medicine* (U).  
*History and Method of Science* (U).  
*History, Near East* (O).  
*Horticulture* (Ag.).  
*Household Science* (KH).  
*Hygiene* (U, KH, Med.).  
*Indian Economics* (E).  
*Industrial Psychology* (E).  
*International History* (E).  
*International Relations* (E).  
*Italian* (U, K).  
*Journalism* (U, K).  
*Languages, v. African, Arabic, etc.*  
*Latv* (Law, Bk., E, O, RI).  
*Librarianship* (U).  
*Logic, v. Philos.*  
*Malayalam* (O).  
*Mathematics* (U, K, Im., EL, Bk., BW, Ho., Wf., RI).  
*Medicine and Surgery* (Med.).  
*Metallurgy* (Im., RI).  
*Meteorology* (Im.).  
*Military Science* (U, K).  
*Mineralogy* (U, Im.).  
*Mining* (Im.).  
*Music* (Ho., RI).  
*Mycology* (Ag.).  
*Norwegian* (U).  
*Oil Technology* (Im.).  
*Optics, Technical* (Im.).  
*Oriental Langs., v. also Semitic, Tibetan* (O).  
*Palæography and Econ. Hist.* (K).  
*Palæontology* (Im.).  
*Pedagogy* (K, Tr., RI).  
*Pharmacology* (U, K, Med.).  
*Philology, Comparative* (U, K).  
*Philosophy, Psychology, and Logic* (U, K, Bk., E, BW, Ho., Th.).  
*Philosophy of Religion* (K).  
*Phonetics* (U and O).  
*Physics* (U, K, Im., EL, Bk., KH, BW, Ho., Med., RI).  
*Physics, Astronomical* (U, Im.).  
*Physiology* (U, K, KH, BW, Med., RI).  
*Polish* (K).  
*Political Economy, v. Economics*  
*Political Science* (E).  
*Political Theory* (E).  
*Portuguese* (K).  
*Poultry* (Ag.).  
*Protozoology* (Med.).  
*Psychology, v. Philosophy*  
*Public Administration* (E).  
*Public Health* (U, Med.).  
*Refractory Materials and Silicates* (Im.).  
*Romance Philology* (K).  
*Roumanian* (K).  
*Russian* (K).  
*Russian Institutions and Economics* (E).  
*Scandinavian* (U).  
*Secretarial Practice* (E).  
*Semitic Languages* (U, RI).  
*Serbian* (K).  
*Shipping* (E).  
*Sinhalese* (O).

<i>Slavonic Languages</i>	(K).	<i>Tibetan</i>	(U, O).
<i>Social Anthropology</i>	(E).	<i>Town-planning, v. Architecture</i>	
<i>Social Science</i>	(E, KH, BW).	<i>Transport</i>	(E).
<i>Sociology</i>	(E).	<i>Veterinary Science</i> (v. also p. 181)	
<i>Spanish</i>	(K, EL).		(Ag., RI).
<i>Statistics</i>	(U, E).	<i>Woods and Fibres, Technology of</i>	
<i>Surveying</i>	(U, RI).		(Im.).
<i>Swedish</i>	(U).	<i>Zoology</i>	(U, K, Im., EL, Bk., BW,
<i>Theology</i>	(K, Th.).		Med., RI).
<i>Thermodynamics</i>	(U).		

## GENERAL INFORMATION

[NOTE. *The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning examns. or procedure except such as is contained in their own official Regns. These can always be obtained on application at the Univ. offices.*]

Central offices—South Kensington, S.W.7. Telegraphic address—University, Southkens, London.

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its examns. was restricted to students of certain affiliated Colleges was abolished, except for examns. in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs. of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate was empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition could be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine, the Maudsley Hospital, the Bethlem Royal Hospital, the School of Pharmacy, and the School of Oriental Studies have been admitted in this category.

The Senate has the power also to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" examns. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses, to examns. for degrees in all subjects except Medicine, Mining, and Architecture. The examns. for Internal and External students are in some cases separate, in others identical.

Further changes in the constitution of the Univ. have been made by the Statutes under the University of London Act of 1926. These Statutes came into force in March 1929, and detailed regns. for carrying them into force are now under consideration. The most important change is the creation of a new body known as the Court, which is responsible for the finances of the Univ.

The two original colleges of the Univ. have been incorporated in it, the University Coll. in 1905 and King's Coll. in 1908, the Senate taking over the responsibility for their administration.

**LIBRARIES.** The libraries belonging to the Univ. of London contain in the aggregate c. 625,000 vols. and pamphlets distributed in three chief centres, as follows: (1) *The Univ. Library* in the Central Building at S. Kensington (c. 250,000 vols. and pamphlets) which provides a free lending library for students and well-equipped research libraries for post-graduate students, incl. the Goldsmiths' Library of Econ. Literature, foremost, on the historical side, among the econ. libraries of the country (c. 60,000 vols. and pamphlets). (2) *Univ. Coll.*, Gower Street (c. 300,000 vols. and pamphlets), incl. the General Library, a series of separate "seminar" libraries (known as the Arts Libraries), the Science Library, and the Med. Sciences Library. (3) *King's Coll.*, Strand (c. 75,000 vols. and pamphlets), incl. a general library and several special collections. The libraries of the Institute of Historical Research, the Francis Galton Laboratory, and the Commerce Degree Bureau, and a small students' library at Goldsmiths' Coll., New Cross, are also the property of the Univ.

There are also important specialized and general libraries belonging to the Schools and instns. of the Univ., incl. those of the Med. Schools, the London School of Hygiene and Trop. Medicine, the Royal Coll. of Music, the School of Oriental Studies, and the London School of Economics.

Full particulars of the above are included in R. A. Rye: *Students' Guide to the Libraries of London* (v. *infra*—Publications).

**MUSEUMS.** Among the many Museums which, in addition to those belonging to the Schools and Institns. of the Univ., are accessible to students in London are the British Museum (Antiq. and Nat. Hist.); Horniman (Anthrop. and Zool.); London; Parkes (Sanitary Science); Practical Geol.; Roy. Archit. Soc.'s; Roy. Coll. of Surgeons'; Science, S. Kensington (Mech., Nav., and Struct. Engin., Phys., Maths., Chem., Physiog., Geol., and Biol.); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit. and Sculpture, etc.).

**LABORATORIES.** The most important are mentioned in the subsections relating to the several colleges. The following are not attached to any college:

*The Brown Animal Sanatory Institution*, 149 Wandsworth Rd., Vauxhall, S.W.8. Superintendent—F. W. Twort, M.R.C.S., L.R.C.P. Established in 1871 for "investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries, any quadrupeds or birds useful to man may be found subject to." It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases of animals are carried on. Both In- and Out-Patients (some 5 or 6 thousand per annum) are treated. Clin. students may be admitted to the Vet. Depts., and Research students are received in the Lab.

*The Institute of Historical Research*, Malet St., W.C.1, is the University Laboratory of History, devoted exclusively to post-graduate and research work. It is situated close to the British Museum, and consists of a systematically planned series of seminar libraries, provided with the books containing or describing the main sources of mediæval and modern history (especially those whose manuscript originals are in the Record Office and other London Archives). It is open not only to every professor, reader, or other teacher of history in the Univ. and his research students, but to historians, archivists, and teachers and research students from other Univs., approved by the Committee. *Director*, A. F. Pollard, M.A., Litt.D., F.B.A., Prof. of Const. Hist.; *Secretary and Librarian*, C. G. Parsloe, B.A.

FACULTIES. 1. Theology. 2. Arts. 3. Laws. 4. Music. 5. Medicine. 6. Science. 7. Engineering. 8. Economics and Political Science. Deans : 1. Dr. Garvie (Hackney and New Coll.). 2. Prof. Atkins (King's Coll.). 3. .... 4. Dr. C. H. Kitson (R. Coll. of Music). 5. Prof. G. E. Gask (St. Bart's Hospl.). 6. Prof. Filon (University Coll.). 7. Mr. C. L. Fortescue (Imp. Coll., C.G.C.). 8. Prof. Gregory (Lond. Sch. of Economics).

*Committees of the Senate.* The more important are—The Academic Council, the Council for External Students, the Collegiate Council, the University Extension and Tutorial Classes Council, the Matricn. and School Examinations Council, the Finance and General Purposes, Library, and Scholarships Committees. There are 18 other Committees besides the 46 Boards of Studies.

TERMS for Univ. and Inter-collegiate courses, 1929-30 : Oct. 10-Dec. 19, Jan. 14-March 25, April 29-June 30.

DEGREES. B.D., D.D. ; B.A., M.A., D.Lit. ; LL.B., LL.M., LL.D. ; B.Mus., D.Mus. ; M.B., B.S., M.D., M.S. ; B.D.S. ; B.Pharm. ; B.Sc., M.Sc., D.Sc. ; B.Com., M.Com. ; Ph.D. (in Faculties of Theol., Arts, Music, Medicine (non-clinical subjects), Science, Engin., and Econ.).

The B.Sc. and D.Sc. are granted in the Faculties of Science (including Pure Sc., Agric., Hortic., Vet. Sc., and, for External students, Estate Management, and, for Internal students, Household and Social Science—B.Sc. only), Engineering, and Economics ; the M.Sc. in Science (including Agric., Hortic., Vet. Sc., and, for Internal students, Household and Social Science, and, for External students, Estate Management), Engineering and Economics.

ADMISSION. The Univ. holds 3 times a year in London and twice a year in certain Provincial centres a Matricn. examn. open to all persons of 16 yrs. of age and upwards. The examn. can also be held by special arrangement in any of the British Colonies or Dominions. Candidates are required to pass on one and the same occasion in 5 subjects : English, Maths., Latin or Greek or a scientific subject, 2 other subjects of which one must, if neither Latin nor Greek is chosen for 3rd subject, be a language ; but any candidate may offer an alternative lower paper in Mathematics or French or Latin and, in compensation, a sixth subject ; such a candidate will be required to pass on the one and the same occasion in each of the six subjects selected. The General School examn. (v. p. 115), if passed in a combination required for Matricn., is equivalent to the Matricn. examn., and several other examns. are also accepted on conditions as exempting from it, namely, those numbered 2, 6, 7, 8(a), 8(b), 9, 10, 12, 19, in Appendix XX., and including the School-leaving examns. of the Univs. of Adelaide, Melb., W.Aust., Cape of Good Hope Secondary School Senior Cert., and Transvaal Secondary School Examn.

STUDENTS FROM OTHER UNIVERSITIES. The graduates of any of the Univs. of the United Kingdom and of some overseas Univs.\* can also claim exemption. Other students of 19 yrs. of age and upwards who present certificates of Matricn. in Colonial Univs. or Indian or foreign certifs. from educational authorities indicating an education equivalent in their own country to that required in England for the Matricn. examn., may apply for admission to the Special Univ. Entrance Examn. in lieu of taking the Matricn. examn. It has been the

\* In Canada—Acadia, Alb., Br. Columbia, Dal., King's, Laval, McG., McM. (B.A. only), Manit., Queen's, Saskatchewan, Tor., Vict., W. Ontario ; Australasia—Adel., Melb., Qld., Syd., Tas., W.A. (Arts, Sc., Agr., Eng.), N.Z. ; S. Africa—Cape, Cape Town, S. Afr., Stell., Witw. ; India—Agra, Aligarh, All., Benares, Bom. (L.M. and S. also recognized), Calc., Dacca, Delhi, Lucknow, Mad., Mys., Nagpur, Panj., Patna, Rang. ; Hong-Kong ; certain Univs. in countries outside the British Empire.

practice to hold this examn. four times a year. Students who do not propose to proceed to a degree are not required to pass any Univ. examn., but must submit evidence that they are sufficiently advanced in their studies.

PERSONS OVER 25 YEARS OF AGE who in virtue of professional qualifications or otherwise are specially qualified to proceed to a Degree course, may apply for admission to the Special Univ. Entrance Examn. See the preceding paragraph.

EXTERNAL students preparing for the Bachelorship undergo Intermediate and Final examns. at intervals prescribed in the Regns., and approximating (except in Med., Dental Surgery, and Vet. Sc.) to 3 yrs. in all. Copies of all Regns. may be obtained gratis and post free from the External Registrar.

EXAMINATIONS IN THE OVERSEAS DOMINIONS. Certain of the examns. of the Univ. for External students are held not only in London and at Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India only the examns. in the Faculty of Theol. are held for civilians; but other examns. may be held for military personnel. The Matricn. examn. and the examns. in Theol., in Arts, in Laws, and in Economics have been held at 110 overseas centres. The Univ. Examns. in Science have also been held under special arrangements at 8 overseas centres, including Ceylon, the Government of which colony now awards annually scholarships of a total value of over £4000 per annum upon the results of the Univ. Final examns. in Arts and in Science.

An INTERNAL student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Intern. course generally extends over 1 yr. As a general rule, Hons. may be taken at the Final examns. A course of study extending over not more than 1 yr. taken in another Univ. approved for the purpose subsequently to a student's passing the Intern. may be accepted subject to regns. in lieu of a course taken in this Univ.

Any person who has passed the Intern. examn. as an *External* student may be allowed to take the Final examn. for the first degree after having attended for 2 yrs. as an Internal student an approved course of study for it, but the degree is not conferred till after a further yr.'s course of approved study.

ARTS. In both Intern. and Final (Pass) examns. 2 langs. must be taken, including either Latin with Rom. Hist., or Greek with Greek Hist. Natives of Asia or Africa may apply for permission to substitute for Latin or Greek—Classical Arabic, Classical Persian, Sanskrit, Pali, Classical Hebrew, or Classical Chinese. The Honours subjects for the Final examn. are Archæol., Chinese, Classics, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psych., Engl., French, Ger., Ital., Portuguese, Span., Slavonic Studies, Indo-Aryan, Arabic, Persian, Japanese, also Celtic for External students, and, for Internal students, Greek, Latin, Dutch, Scand. Langs., Anthropol., Sociology.

The B.A. course in Archit. extends over 5 yrs., but graduates of approved Univs. may be exempted from such part of the earlier yrs.' courses of study and examns. as the Senate may determine.

The M.A. is conferred in Archæol., Class., Hist., Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., Geog., and, for Internal students

only, in Comp. Philol., Psychol., Slavonic Studies, and Sociology. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Hons. at the B.A. examn. External students may take the M.A. examn. 2 yrs. after graduation in Arts. Candidates may only take 1 branch or section at a time. In most there is a *viva-voce* examn. The D.Lit. is open to M.A.'s and Ph.D.'s only and is conferred for original work.

**Diplomas.** Teacher's, 1 yr. course for graduates and others similarly qualified (also for External students); Fine Art (3 yrs.); Dramatic Art (2 yrs.); Slavonic studies (2 yrs.); History (4 yrs. part-time or 1 yr. full-time); History of Art (4 yrs. part-time or 2 yrs. more intensive); Anthropology (2 yrs.); Journalism (2 yrs.); Literature (4 yrs. part-time or 1 yr. full-time); Town Planning and Civic Archit. or Civic Engin. (2 evenings a week for 2 terms or 1 day a week for 3 terms); Academic Dip. in Geog. (180 hours); External Dip. in Geog.; Sociol., etc. (*v. infra*, Econ.); Librarianship (2 yrs. for day students, 3-5 yrs. for evening students); Academic Diplomas in Psychology, Anthropology, and Archæology (2 yrs.).

**SCIENCE.** For the Intern. examn. Pure or Applied Maths. or Physics must be taken with 3 other subjects. For Final (General) examn. any 3 of the following may be selected: Pure Maths., App. Maths., Astron., Physics, Chem., Geol., Bot., Zool., Physiol., Psych., Anthropol., Milit. Studies, Geog., Human Anat. and Morph., and Logic and Method (Ext. students), Statistics (Int. students). For B.Sc. (Special) examn. a student selects 1 principal and (except in case of Human Anat. and Morphol. or Maths.) 1 subsidiary subject. Honours may be awarded at both B.Sc. (General) and B.Sc. (Special) examn. For the M.Sc. for Internal students a thesis is required except in Maths.

For the Degree in Agric. the Intern. examn. includes Chem., Bot., Zool., and Physics; the Final—Agric., Bio-Chem., Agric. Bot., and Agric. Engin. In Horticulture the subjects for the Intern. are Chem., Bot., Zool., Physics, Geol., and Surveying; for the Final, Practice of Hortic., Book-keeping, Principles of Hortic., and Entom. For the Degree in Vet. Sc. there are 4 examns. to be taken in their proper order: Prelim. (Inorganic Chem. and Physics), Intern. Pt. I. (Organic Chem., General Biol., and Vet. Anat.), Pt. II. (Vet. Physiol.), and Final (Vet. Pathol. and Vet. Hyg.). There is no Doctorate in Agric. or in Vet. Sc., Bachelors of Science (Agric. or Vet. Sc.) being held to be eligible for the ordinary D.Sc. For the Degree in Household and Social Science there are 3 examns.: 1st Intern. (Phys., Inorg. Chem., Biol., and Social and Econ. Hist.); 2nd (Chem.—Org. and Phys., Gen. and Econ. Biol., Principles of Econ.); and Final (App. Chem., Physiol. and Bio-Chem., Hygiene and Bacteriol., and Household Work). For the Degree in Estate Management there are 2 examns., Intern. and Final. Intern.: Pt. I.—Surveying, Econ., and Agric. or Town Planning; Pt. II.—Accounting and Land Law; (Pts. I. and II. may be taken separately). Final: Pt. I.—Land and Buildings Valuation, Taxation and Tithe, Land Law; Pt. II.—Building Constrn., and *either* A (Agric., Forestry, Agric. Law) *or* B (Town Planning, Urban Pub. Sanitation, Munic. and Local Govt. Law). Pts. I. and II. may be taken separately.

**Diplomas.** Academic Dip. in Bacteriology (1 yr.); Academic Dip. in Biology (1 yr.).

**THEOLOGY.** The Intern. course is in Bibl. Langs., Class. Langs., Ancient Hist., and Psych. and Ethics; the Final in Old Test., New Test., Bibl. and Hist. Theol., Church Hist., Philos. Introdn. to Theol., and a selected subject. The Honours examn. is distinct from the Pass, and may be taken 1 yr. after graduation in Div.; the subjects are Hebrew and Aramaic, including Syriac, Greek

N.T. and Apocrypha, Church Hist., Bibl. and Hist. Theol., Study of Religion. Candidates for the D.D. degree must have taken Honours in Theol. in this Univ.

*Diplomas.* Academic and External Diplomas in Theol.

**LAW.** The subjects of the Intern. course are Rom. Law, Engl. Const. Law and its Hist., Jurispr., and Crim. Law and Crim. Procedure, or Indian Penal Code and Crim. Procedure. Candidates for the LL.M. are examined in two selected subjects. Candidates for the LL.D. must hold the LL.M.

**MEDICINE.** The course extends normally over 5½ yrs. In the first yr. courses in Inorg. Chem., Phys., and Genl. Biol. in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Org. Chem. (the only subject at Pt. I. of the 2nd examn.), Hum. Anat. and Embryol., Physiol., Pharmacol. Pt. II. of the 2nd examn. is normally taken 18 mos. after passing the 1st. The Final course for the M.B., B.S. degrees falls into 2 groups as follows: Group I.—Med., Path., For. Med. and Hyg.; Group II.—Surg., and Obstetrics and Gynæcology. The groups may be taken separately or together, but degrees are not conferred until candidates have passed in both groups.

Institutions outside the U.K., certificates from which for the complete course of Med. educn., including Clin. Med. and Surg. preparatory to the M.B., B.S. degrees, are accepted by the Univ. of London: Univs. of Dalhousie, McGill, Adel. (with Infirmary), Melb. (with Melb. and Alfred Hospls.), Syd. (with Infirmary and Prince Alfred Hospl.), N.Z. (with Dunedin Hospl.); following Indian Med. Colleges—Grant (Bombay), Bengal (Calcutta), Lahore, Madras; Med. Coll., Colombo; Univ. of Malta; Sch. of Med., Cairo.

The M.D. may be taken in any of the following: Med., Path., Psych. Med., Midw. and Dis. of Women, State Med., Trop. Med.

The M.S. may be taken in Surg., Dent. Surg., Ophth., or Laryn., Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted.

The course for the B.D.S. extends normally over 5 yrs.—there are 4 examns. The subjects of the Final examn. are Dent. Surg., Oper. D.S. and Orthodontics.

**B.Pharm.** The Intern. subjects are Bot., Chem., Physics, and Zool.; Final subjects are Bot., Chem., Pharmacognosy, and Pharmacy.

*Diplomas.* Psychological Medicine; Nursing; Public Health.

**MUSIC.** The subjects for the Intern. examn. are Harmony and Counterpoint, Form and Analysis, and Hist. of Mus. For the B.Mus. examn.:—Harmony and Compn., Counterpoint, Fugue and Canon, Hist. of Music, Musical Analysis, Musical Exercise. Candidates for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn. and a musical exercise.

**ENGINEERING.** Intern. examn. subjects: Pure Maths. and Applied Maths., Heat, Elec. and Magn., Engin. Drawing, and either Sound and Optics or Chem. or Geol. In the Final examn. in *Engin.* not less than 5 subjects are taken, a wide choice being allowed; in *Mining* 6, of which Mining Geol. and Mineral., Mining, Mine Surveying, Mineral Dressing, and Assaying are compulsory; in *Metall.* 6, of which Metall., Metall. Analysis, Metallography and Pyrometry, Electro-Metall., and Fuel and Refractory Materials, are compulsory. For an Honours degree in Engin., Mining, or Metall. at least 1 extra subject must be taken at the Final examn. and a higher standard reached in all the subjects taken.

**ECONOMICS.** The Intern. examn. for B.Sc. (Econ.) is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog.,

Maths. or Logic or French or German. Pt. II.—English Econ. Hist., British Constitution. For the Final—Econ., two alternative subjects, and a selected subject. Passages are set from French, German, and Italian works for translation and comment.

For the B.Com. the Interim. examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., an approved Modern Lang. Pt. II.—English Econ. Hist., Accounting, or a subsidiary Approved Mod. Foreign Lang. The B.Com. examn. is in 2 parts: I.—the Present Organization of Industry, Banking, Trade, and Transport; Econ. Development of the Empire; Elements of Comm. Law; Statistical Method; a selected subject; II.—A selected group of subjects.

*Diplomas.* Academic Dip. in Sociology and Social Administration (2 yrs.' course, at least 150 hours in each); Dip. in Economics and Social Sc. (4 yrs.' part-time or shorter full-time course).

**MILITARY EDUCATION.** See Appendix I. Military Studies is one of the optional subjects for the Interim. and Final B.A. (Pass) and B.Sc. (General) examns. The Officers' Training Corps Contingent supplied 4200 officers for the war, of whom 650 are known to have fallen.

**POST-GRADUATE STUDY AND RESEARCH.** In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. External graduates and graduates of, and persons who have passed the degree examns. of, other approved Univs. are allowed, under certain conditions, to enter as Internal students for the degree of Bachelor or of Ph.D. in the several Faculties (but not in Medicine and Surgery), and for the degree of M.A., LL.M., or M.Sc. Application for registration may be submitted with evidence of graduation, etc., through the authorities of the College, School, or Institution at which the applicant proposes to study, and supported by their certificate of his fitness to undertake a course of study or research with a view to the proposed degree, and that they are willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School, or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., *i.e.* at the beginning of the session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs. (*v. infra*—Publications).

An Internal student who is a candidate for the Ph.D. degree must have graduated in the Univ. in the faculty of Theology, Arts, Music, Medicine, Science, Engineering, or Economics, or have been registered as a candidate for the degree after obtaining a degree in another approved Univ. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods. Any graduate of the Univ. may become a candidate for the Ph.D. degree as an External student on receiving the approval of the Council for External Students.

**FEES.** Matricn.—2½ gs.; Examn. and Graduation—15 gs. (Med., 20 gs.) for first Degree. Other Degree fees, 10 to 20 gs. Tuition, see the sections relating to the several colleges.

**STUDENTSHIPS AND SCHOLARSHIPS.** Studentships are awarded by the Senate in aid of advanced work or research. These include one of £50 p.a.

for 1 or 2 yrs., open to students of Univ. Coll. in Maths.; one of £100 in Archæology; one of £50 in Physiology; £100 and £140 in Arts; £100 in Econ.; £200 for the man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science; £200 for a graduate of a British Univ. for the promotion of post-graduate research; 2 Univ. *Travelling Scholarships* of £275 each, open to Internal and External graduates in all faculties, and 3 Univ. Studentships of £150 each, open to Int. and Ext. graduates in Theol., Arts, Laws, Music, and Engineering; *Duveen Travelling Studentship* of £450 for research in Oto-Rhinolaryngology. The Gilchrist Trustees provide funds for two Studentships, viz. one of £100 for a woman graduate preparing for a profession; and one in Mod. Langs., £80, open to a B.A. who took Honours in French or German, for a course of study abroad with a view to the profession of teaching. Three Scholarships of £50 each for 1 yr. are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet, obtainable post free on application to the Univ., gives details of many others. See also next para.

THE COMMERCE DEGREE BUREAU exists to help in their studies External (especially extra-London) students proposing to take the Commerce Degree examns., to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference and lending library for students, and generally to promote the value and usefulness of the Commerce degree. Offices were opened in 1922 under a Board of Governors at 46 Russell Square, W.C.1, where the work of the Bureau is associated with the general UNIVERSITY APPOINTMENTS BOARD work. There is a Bureau Educational Advisory Staff (Chief Advisor: Prof. A. J. Sargent, M.A.). Prospectus and enquiry forms obtainable on application to the Secretary, H. J. Crawford, B.A.

The *Sir Ernest Cassel Travelling Scholarships* (4) of £200 to £300 each, open to British students who pass Part I. of Final Examn. in Commerce, and propose to pursue study of Commerce abroad.

RESIDENCE. Hostels recognized by the Senate: Connaught Hall of Residence, 13-14 Bedford Place, W.C.1; Univ. Coll. Hall, Ealing, for 52 men students (fees for residence, 30s. to £3 a week); College Hall, Byng Place, Gordon Square, W.C.1, for women students; King's Coll. Theological Hostel, Vincent Square, S.W.1; The Platanes, Denmark Hill, S.E.5, for King's Coll. and its Med. School. Residence is also provided at or in connexion with the S.E. Agric. Coll., Wye, Bart.'s, Guy's and Middlesex Hospl. Med. Schools, the Theol. Colls. at Hampstead and Highbury, and the Women's Colleges.

A UNION SOCIETY on the lines of those of Oxford and Cambridge was founded in March 1921. Address—University Union, Malet St., W.C.1. There is also an ASSOCN. OF LONDON GRADUATES. A UNIVERSITY COUNTRY CLUB at Chequers was formed (by a private company) in 1924.

UNIVERSITY EXTENSION. The work of the University Extension and Tutorial Classes Council may be considered to fall under the following heads: (a) Univ. Extension Lectures and Tutorial Classes; (b) Holiday Courses for Foreigners; (c) Examn. for the Certif. in Religious Knowledge; (d) Examns. for Certificate of Proficiency in English, and for Certifs. in Danish, French, German, Italian, Norwegian, Russian, Spanish, and Swedish; (e) Examn. for Certif. in Diction and Drama; (f) Examns. for Diplomas in History, Literature, Economics and Social Science, History of Art, Literary, Historical and Comparative Study of the Bible; (g) Examn. for Diploma in Psychological Medicine; (h) Examn. for Diploma in Dramatic Art; (i) Examn. for Diploma in Nursing.

(a) *Univ. Extension Lectures* have been carried on by the Univ. since 1902 (prior to that, since 1876, by the London Society for the Extension of Univ.

Teaching). Courses are held, at about 55 centres, on Hist., Lit., Econ. and Social Sc., Philos., Geography, Music, Painting, Architecture, and Nat. Sc. A class is held in connexion with each lecture, and students are encouraged to do regular written work for the lectr. An examn. for certifs. may be held at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 or 6 lectures) of a *pioneer* or illustrative kind are arranged; in connexion with these there is no examn. Continuous study over several years is encouraged by the Vice-Chancellor's Certif. of Continuous Study (awarded to students who obtain 4 Sessional Certifs. in subjects chosen from certain groups) and by the *Diplomas in the Humanities* (Hist., Lit., Econ. and Social Science, Hist. of Art, Literary, Historical and Comparative Study of the Bible), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study covering 4 yrs., and pass the required examns. *Diplomas in History, Literature, and Economics and Social Science* are also awarded on the result of One Year Full-time study; *Diplomas in Economics and Social Science, and History of Art* on the result of two years' part-time study.

The *Tutorial Classes for Working-people* extend over 3 consecutive years, and membership is usually limited to about 24 students, who undertake to attend regularly and to do regular written work for the tutor. Certifs. are not awarded.

(b) A *Holiday Course for Foreigners* is held annually in London during four weeks from the middle of July. Special stress is laid upon Phonetic teaching. The course is designed to widen the student's knowledge not only of the Engl. Lang., but of English customs, institns., and art, by means of lectures, classes, excursions, etc. The total number of students admitted to the course is limited to about 300, and the number in each class to 8. During the 22 years 1904-1914 and 1919-1929 the course was attended by 5352 students from 47 countries.

(c) The *Examination for the Certificate in Religious Knowledge*, instituted in 1909, is held once a year in June. It may be held at certain of the Provincial centres at which the June Matricn. examn. is appointed to be held, as well as in London.

(d) *Examinations for Certificate of Proficiency in English* ((i) for foreigners, (ii) for English born; instituted in 1920) in Aug. and Dec. or as may be arranged. They are intended to provide evidence, which may not be guaranteed by a teacher's other certificates of such a practical working knowledge of the English language, written and spoken, and of such acquaintance with Phonetics, as may be of special value for teaching English in foreign countries (Scheme A), or to foreign students (Scheme B).

(e) *Examinations for the Certificates in French and in German* (instituted in 1913), in *Italian, Russian, and Spanish* (instituted in 1919), and in *Danish, Norwegian, and Swedish* (instituted in 1921), are held in July or as may be arranged. They are intended primarily for teachers who are not specialists in, but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written.

(f) *The Examination for the Certificate in Diction and Drama* is held once a year, in July, and is open to Registered Teachers, to Teachers on the Provisional and Associate Registers, and to others specially approved, who have taken a one-yr. course at Training Schools or Institutions approved for the third-yr. course for the Diploma in Dramatic Art.

(g) *The Examinations for the Diplomas in History; Literature—English*

Lang. and Lit. or General Lit. ; *Economics and Social Science* ; *History of Art* ; and the *Literary, Historical and Comparative Study of the Bible*—are held once a year for students who have followed a recognized course of study for 4 yrs. as part-time students, or in some cases for a shorter period.

(h) The *Examn. for the Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register. There are two varieties of this Dip., for those desiring to specialize in Mental Diseases and in Mental Deficiency respectively.

(i) The *Examn. for the Diploma in Dramatic Art* is held once a year, in July, and is open to students of not less than 17 years whose general education satisfies the Board and who have studied at least two years at Training Schools or Institutions where courses have been approved.

(j) The *Examn. for the Diploma in Nursing* is held once a year in October and November, and is open to Registered Nurses (or Nurses eligible to sit for the prescribed examn. for registration) whose general education satisfies the Board, subject to certain specified conditions with regard to Part B of the Examn.

[*Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, South Kensington, S.W. 7.*]

INSPECTION AND EXAMINATION OF SCHOOLS. A close relationship between examination and inspection has been carefully and continuously developed by the Univ. The County Councils of Middlesex and Surrey have placed their Secondary Schools to the number of 72 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ. The Board of Educn. and the Univ. inspect alternately and exchange Reports.

*Inspection* may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is known as *Examinational Inspection*, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for School Certificates* are held only in Schools inspected by the Univ. or under other approved inspection ; the course of study in the school must also be approved. The examns. are of 3 grades : I. Higher, II. General, and III. Junior ; for I. the (a) Higher School, (b) Intermediate (Arts or Science or Commerce or Economics) Certificate ; II. the (a) School, (b) Matricn., or (c) School Commercial Certif. ; and III. the Junior School Certif., respectively. Certifs. I. (a), II. (a), and II. (c) are not awarded until the pupil leaves school. The examn. fees are from 1 to 3 gs. ; or 6 gs. if for Intermediate Cert.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns. (v. p. 4) respectively, and the Certifs. I. (a) and II. (a) awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and a pupil who reaches the necessary standard at one and the same examn. in a combination required for Matricn. is entitled on payment of the registration fee of 17s. 6d. to be registered as a Matriculated student of the Univ., if or when he has attained the prescribed age.

The *Junior School Examination* is intended for pupils about the age of 15.

In the case of each of the School examns. an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical examns. in Science are optional, except in the case of grade I., in which they form an essential part of the examn.

**PUBLICATIONS.** The following are obtainable from the Univ. of Lond. Press, Ltd., 10-11 Warwick Lane, London, E.C.4 :

*The Calendar*, pubd. in Sept., price 6s. net, postage 9d. *Regns. and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 9d. The Courses are pubd. separately for the several Faculties. The *Regulations for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net, postage 6d.; *London Univ. Gazette*, pubd. at average intervals of 4 weeks; the Examn. Lists are pubd. in Supplts.; annual subs., including postage, 5s.; single no., 7d. *Matriculation Pamphlet*, issued after each Examn., containing the Regns. and Examn. Papers, 1s. 8d. post free. *Examn. Papers*, published as soon as possible after the several Examns.; prices vary from 9d. to 2s. 10d. *Libraries of London: a Guide to Students*, by R. A. Rye, Goldsmiths' Librarian, 3rd edition, 10s. *Historical Record of the Univ.*, Second Issue, 1836-1926, contains (a) a Hist. of the Univ.; (b) former Fellows; (c) Donations and Trusts; (d) Graduates; (e) persons to whom prizes, etc., have been awarded; 5s. net., postage 6d.

**Regulations.** The following may be obtained on application to the Univ.: Regns. for Matricn.; Regns. for Int. and for Ext. Students (pubd. separately) for Degrees in Arts, Science, Agric., etc.; for the various Diplomas and Certificates in special subjects; for Ph.D. Degree; Scholarships pamphlet. Applications for any of these should be addressed to the Principal.

*O.T.C. Handbook* obtainable from the Secy., 46 Russell Sq., W.C.1.

## THE YEAR 1928-29

**BENEFACTIONS.** Czecho-Slovak Govt., buildings for an Institute of Slavonic and East European Studies on Bloomsbury site. Trustees of late C. H. Clark, £10,000 for Lectureship in Hist. and Progress of Preventive Med. and Trop. Hygiene. Bequest by Miss Agnes Mason, Classical Scholarship of value of £115 a yr. Beaverbrook Fund, £1000 for medical research. See also under Univ. and King's Colls.

**New Posts.** At University Coll.: Chair of Plant Physiol. At London School of Economics: Chairs of Econ. and of Imperial Econ. Relations. At Westfield Coll.: Chair of History. At St. Thomas's Hosp. Med. School: Chair of Anatomy. At Birkbeck Coll.: Readership in Maths.

**OTHER DEVELOPMENTS.** Ph.D. in non-clinical Med. subjects, Academic Diploma in Public Health, and Extension Certificate in Diction and Drama instituted.

Students' Union reconstituted on a federal basis and new temporary premises in Torrington Square are being prepared.

**STUDENTS.** Total admissions in the year 1928 were 10,578, of whom 2626 were exempted from the ordinary matricn. examn.: 426 as graduates of other Univs., 1914 as holders of approved certificates, and 259 after passing the Special Univ. Entrance examn. Of 3993 candidates for first degrees, 2247 were internal and 1746 external. The total number of internal students on the rolls was 9958.

UNIVERSITY EXTENSION. Number of Lecture Courses : Sessional (24 or 25 Lectures), 41 ; Terminal (10 or 12 Lectures), 41 ; Short (4 or more Lectures), 33. Terminal entries of Students for all Courses, 11,938. Humanities Diploma Students, 550. Number of Univ. Tutorial Classes, 53 ; Students, 1073.

The Holiday Course for Foreigners was more popular than ever—over 550 applications for admission had to be refused. There were 294 students, representing 31 nationalities.

VISITORS who lectured in the Univ. : Prof. J. G. Andersson of Stockholm (Archæol.) ; Prof. M. P. Nilsson of Lund (Classics) ; Mr. M. Bouteron of Paris (French) ; Prof. J. Petersen of Berlin (German) ; Prof. H. Hauser of Paris (Econ. Hist.) ; Prof. Meillet of Paris (Oriental Studies) ; Prof. A. Aall of Oslo (Philos., Social Psychol.) ; Prof. E. D. Wiersma of Groningen (Psychol.) ; Sir H. Moore of Melbourne (Laws) ; Prof. H. Berthélemy of Paris (Laws) ; Prof. A. Brachet of Brussels (Human Anat.) ; Prof. F. Fulleborn of Hamburg (Tropical Med.) ; Prof. P. Karrer of Zurich (Chem.) ; Prof. Sten de Geer of Stockholm (Geog.) ; Prof. E. de Margerie of Strasbourg (Geol.) ; Prof. H. Przibram of Vienna (Zool.) ; Mr. L. Emanuelli of Milan (Elect. Eng.) ; Prof. R. Galland of Bordeaux (Comparative Literature) ; Dr. P. Haensel of Moscow (Econ.) ; Prof. E. Vermeil of Strasbourg (French) ; Prof. G. Lefebvre of Strasbourg (Hist.) ; Prof. G. Arias of Florence (Italian) ; Dr. P. Stamberger of Budapest (Chem.) ; Prof. M. Hajek of Vienna (Laryngol.).

# UNIVERSITY OF LONDON, UNIVERSITY COLLEGE

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DEANS OF FACULTIES. See under "General Information"—Faculties.

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- |   |   |
|---|---|
| <i>Anatomy</i>  | <i>Architecture</i>   |
| Smith, G. Elliot, M.A. Camb.,<br>Litt.D., M.D., M.S. Syd.,<br>D.Sc., Ch.M., F.R.C.P., F.R.S.<br>Prof. | Richardson, A. E., F.S.A.,<br>F.R.I.B.A. Prof.<br>Adshead, S. D., M.A. Liv.,<br>M.Arch., F.R.I.B.A.                 |
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| Harris, H. A., M.B., B.S., B.Sc.,<br>Asst. Prof. and Curator of<br>Museum.                            | Corfiato, H. Sr. Lectr.<br>Wilson, H. Warren<br>Lectr. (Decoration).  |
| Stibbe, E. P., F.R.C.S. Sr. Demr.   | Dawson, M. J., F.R.I.B.A.<br>Lectr. (Building Constrn.).  |
| Davies, F., M.D. Sr. Demr.  | 1 Sr. Asst., 3 Assts.   |
| Young, M., M.D. Lectr.  | <i>Art (Fine Arts)</i>  |
| Fielding, Una, M.B., Ch.M.<br>Demr. and Lectr.  | Tonks, H. Slade Prof.<br>Borenus, Tancred, D.Lit., Ph.D.<br>Helsing.<br>Durning Lawrence Prof.<br>(History of Art). |
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| 3 Demrs., 2 Hon. Demrs., and 1<br>Senr. Asst.   | <i>Astronomy</i> , v. Maths.<br><i>Bio-Chemistry</i> , v. Physiol.  |
| <i>Anthropology</i> , <i>Cultural</i> [Reader.<br>Perry, W. J., M.A. Camb.                            | <i>Botany</i><br>Hill, T. G., D.Sc., A.R.C.S.<br>Prof. of Plant Physiol.  |
| <i>Archæology</i> , v. also Egypt.<br>Ashmole, Bernard, M.A., B.Litt.<br>Yates Prof.                  |   |
| Gardner, E. A., Litt.D. Camb.<br>Yates Lectr.   |   |
| Wheeler, R. E. M., M.A., D.Lit.<br>Hon. Lectr.  |   |

Salisbury, E. J., D.Sc.

Quain Prof.

Haas, P., Ph.D. Freib., D.Sc.

Reader (Plant Chem.).

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Sr. Lectr.

2 Assts.

*Celtic*

[Lectr.

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Liv., F.I.C., F.R.S.

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Dir. of Labs.

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Belf., F.R.S.

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F.I.C. Reader (Org. C.).

Evans, H. J., B.Sc.

Sr. Lectr. (Med. Students).

Terrey, H., B.Sc.

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Barratt, S., B.A. Sr. Lectr.

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Bailey, C. R., B.A., M.Sc.

Day, J. N. E., M.Sc., A.R.C.S.

Sowerby, A. L. M., B.A., M.Sc.

Topley, B., M.A.

Le Fèvre, R. J., M.Sc., Ph.D.

Walker, O. J., Ph.D.

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Ramsay Prof.

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Solomon, L., M.A. Ox. Sr. Lectr.

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*Dutch Lang. and Lit.* [Reader.

Haantjes, J., Lit.Doctr. Utrecht

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*Economic Geography*, v. Geog.

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Pender Prof.

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Lectr. in Electrical Ma-  
chine Design.

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Hitchcock, Elsie V., B.A., Ph.D.,  
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Aberd. and St. And., F.R.S.  
Galton Prof.

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Lectr.

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Lectr.

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Quick, Edith E., B.A. Lectr.

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- Lund, Sophie C. Sr. Asst. Hall, N. F., M.A.  
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 Camb., F.Inst.P. Sr. Lectr.  
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 Hon. Research Asst.  
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 Ph.D. Lectr.  
 Barkas, W. W., M.Sc. Lectr.  
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 Harris, D. T., D.Sc., M.B., B.S.  
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 Chibnall, M. A., Ph.D. Hon. Lectr.  
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 Philpott, S. J. F., B.Sc. Lectr.  
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 Asst.
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 Helweg, J. H., Cand. Mag. Copen-  
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 (Danish).  
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 Christiania  
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 smid Lectr. in Hebrew) Lectr.
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*Surveying*, v. Engineering,  
 Munic.
- Tibetan*  
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- Town Planning*, v. Archit.
- Zoology and Comparative Ana-  
 tomy*  
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 F.R.S. Jodrell Prof.  
 Fraser, Elizabeth, D.Sc. Sr. Lectr.  
 Stephenson, T. A., D.Sc. Sr. Lectr.  
 Hacker, Helga, D.Sc. Sr. Asst.  
 2 Assts., 2 Hon. Research Assts.,  
 1 Hon. Asst.

## GENERAL INFORMATION

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MUSEUMS. Anat., Archit., Bot., Egypt., Engin., Geol. and Mineral., Vulcanological (Johnston-Lavis Collection), Zool. Two Astron. OBSERVATORIES.

FACULTIES. Arts, Laws, Science, Engineering, Medical Sciences. Deans: Profs. Chambers, de Montmorency, Jeffery, Coker, Drummond.

COURSES. Arts, Laws, Science, Eng., Medical Prelim. and Intermediate, Hygiene. Open to students of both sexes. The Arts Faculty includes Slade School of Fine Art, School of Librarianship, School of Journalism, and Bartlett School of Archit. The Engineering Faculty includes Depts. of Civil and Mechanical (with sub-depts. of Graphics and Surveying), Elec. Eng. and Munic. Eng. and Hygiene. A Diploma in Eng. is given after a 3 yrs. course, and Certificates in Eng. (2 yrs.); a Diploma in Archit. (5 yrs.) and a Certificate in Archit. (3 yrs.).

All departments of the College are available for POST-GRADUATE AND RESEARCH WORK, and the respective Profs. are always prepared to advise students wishing to undertake research.

DEPARTMENT OF APPLIED STATISTICS. The *Francis Galton Laboratory for National Eugenics* was founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally. It is open to Research students in Eugenics of both sexes. The *Drapers' Company's Biometric Laboratory*, founded 1895, for the statistical study of biological problems, possesses a good collection of calculating machines, integrating mechanisms, moment-finders, as well as a large series of statistical models, measuring instruments, etc. Research workers can start any time during the session, but, unless attending the lectures in the Dept., are expected to have a preliminary training either in Biology or Maths.

Courses of Instruction are given on Statistics and cognate subjects, and also short courses of popular lectures. Fees (for Research workers): per term, £4:14:6. A Fee of 17 gs. per session admits to the Eugenic and Biometric Labs. on all days and to all lectures, as well as to the use of the Library and of the material in the Archives. Fee for use of calculating machines, 1½ gs. per term. For list of publications, v. *infra*.

THE BARTLETT SCHOOL OF ARCHITECTURE was established by the combination of the Archit. Schools of University and King's Colleges. The Certificate

(3 yrs.) and Diploma (5 yrs.) courses are recognized by the R.I.B.A. as exempting from the R.I.B.A. Intermediate and Final exams. respectively. A Division of Decoration, instituted with the co-operation of the Inc. Institute of British Decorators, provides a 3-yrs.' Certificate Course. The accommodation includes three large Studios, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room. Rooms are also provided for the Department of Town Planning instituted in Oct. 1914. The day work is supplemented by evening classes in design. There is an Atelier for graduates and advanced students.

**FOREIGN STUDENTS** are admitted to the College on the same terms as British. They are expected to produce identification papers. In August a *Vacation Course* is held in Phonetics and Spoken English (Director: Prof. Daniel Jones). Men attending that Course can reside at University College Hall, Ealing. Special courses in Aspects of British Life and Civilization take place *throughout the session*. The Secretary will always advise foreign students by correspondence or personal interview as to the cost of residence in London and as to suitable houses. The Ramsay Memorial Fellowships in Chemical Science founded by certain Foreign Governments are tenable at Univ. Coll., London, among other places; 3 Fellows from overseas are now working there.

**FEES.** Composition for 3 sessions' course in Arts—98 to 105 gs.; 5 sessions' course in Archt.—228 gs.; 3 sessions' course in Science—135 to 140 gs.; Engin.—168 gs.; Econ.—26 gs. per session; Med. for 1st examn.—35, 2nd—80 gs.; Laws—Day 26 gs., Evening 20 gs. per session; Fine Art—28 gs. per session; for Higher Civil Service—50 gs. (35 gs. to those who have taken undergraduate course at the College).

**SCHOLARSHIPS, ETC.** Annual value, about £3872 (including £1340, Entrance Scholarships). Extra Bursaries amounting to £388 were granted in 1928-29.

**RESIDENCE.** A Hall for 52 men at Ealing, £2 to £3 a week. One for women (79) in Byng Place, W.C.1, 84 to 117 gns. per Coll. session of about 33 weeks.

**PUBLICATIONS.** *Calendar* (Oct.), 3s. 6d.; *Annual Report*; *University College Magazine*; the various Faculty and Departmental Prospectuses; *Prospectus* of post-graduate courses and arrangements for research. Dept. of Applied Statistics: *Annals of Eugenics*, a Journal for the scientific study of Race Problems, vols. I-IV.; *Eugenics Lab. Memoirs* (i.-xxv.) and *Lecture Series* (i.-xiv., popular exposition of conclusions); *Treasury of Human Inheritance* (14 parts). *Biometrika Journal* (i.-xxi.); Drapers' Company Research Memoirs, *Biometric Series* (i.-xii.), and *Studies in Natural Deterioration* (i.-xii.); Drapers' Company *Technical Series* (i.-vii.); *Tracts for Computors* (i.-xvi.). Ephemeral papers published in *Questions of the Day and the Fray* (i.-xii.).

## THE YEAR 1928-29

**BENEFACTIONS.** The Centenary Fund stood (July 1929) at £222,798. The late Lady Durning-Lawrence, £10,000 for the completion of electrical equipment in the Department of Chemistry; a Memorial Committee, £2700 for a Bayliss-Starling Scholarship for the promotion and encouragement of the study of Physiol. and Biochem., as a memorial to the late Profs. Sir William M. Bayliss and Ernest Henry Starling; a Committee of past and present colleagues of Prof. Francis Wall Oliver, on the occasion of his retirement, £400 for an "Oliver Bursary in Botany" to encourage research in Bot., to commemorate the 69 yrs.' association of Prof. Oliver and his father, the late Prof. Daniel Oliver, with the Chair of Botany; the Exrs. of the Charles Heath Clark Estate, £1000 for the Slade School of Fine Art and £1000 for the Facs. of Arts and Laws;

Imperial Chemical Industries, Ltd., £1250 for Chemical Research; the late Lady Durning-Lawrence, £500 for the Women Students' Athletic Ground; Sir Ralph C. Forster, Bt., £500 for the Men Students' Athletic Ground; Mrs. M. W. Wharrie, £120 for the Students' Loan and Bursary Fund; the Carnegie U.K. Trust, £200 for the School of Librarianship; Drapers' Company, £500 for Biometrics; per Italian Ambassador, £300 for Italian; Rhodes Trust, £200 towards Chair of Constitutional Law; Chadwick Trust, £100 for Municipal Engineering.

**NEW BUILDINGS.** A new Univ. Observatory in Mill Hill Park, on site granted by Hendon U.D.C., with a 24-in. Reflecting Telescope by Sir Howard Grubb, the gift of Mr. J. G. Wilson, and a spectrographic lab., principal instruments a 10-ft. Rowland grating spectrograph and universally-mounted cœlostast by Cooke. Open to students of all Colls. of Univ. in Fac. of Science. The Fac. of Engineering has been provided with a new laboratory for the Dept of Munic. Eng. and Hygiene. Leases have been obtained of the North Wing and Annexe of Dr. Williams' Library. The North Wing has been renamed Crabb Robinson Hall, and provides further classroom and Private Room accommodation for the Faculties of Arts and Laws. The Law Library has been moved there. The Annexe has been renamed "Henry Morley," in memory of Prof. Henry Morley, during whose principalship of University Hall, Gordon Square, it was begun. It has been reconstructed and enlarged to provide further accommodation for the Fac. of Arts, including the School of Librarianship and its Library, from the opening of the session 1929-30.

**NEW POSTS.** Lord Northcliffe Chair of Modern English Literature; Lord Northcliffe Lectureship in Literature; Lectureship in Decoration; Full-time Professorship of Psychology (formerly part-time); Assistants (1 Sen., 1 Jun.) for Tutorial work in Fac. of Laws; Lectureship in Elect. Machine Design.

**RETIREMENTS.** The Provost, Sir Gregory Foster, as from Dec. 31, 1929; Prof. Ernest Gardner (but continues as Yates Lectr.); Prof. F. W. Oliver; E. Sprague (Engin.). **RESIGNATIONS:** O. Doughty (English), to be Prof. of Engl. Lit., Cape Town; C. R. Sanderson (Library Routine), to be Deputy Librarian, Munic. Lib., Toronto; E. C. Titchmarsh (Math. Analysis), to be Prof. of Pure Maths., Liverpool Univ.; Dr. G. P. Crowden (Physiol.), to be Lectr. in Physiol. as applied to Hygiene, Lond. Sch. Hyg. and Trop. Med.; M. E. Delafield (Hygiene), to be Prof. of Chem. as applied to Hygiene, Lond. Sch. Hyg. and Trop. Med.

**DEATHS.** W. R. Jaggard, Lectr. in Building Construction; F. T. Marchant, Sen. Asst. Hygiene and Pub. Health; Emer. Prof. M. J. M. Hill; Emer. Prof. Sir Alexander Kennedy.

**IMPORTANT EVENTS.** In Jan. the First Walter Seton Memorial Franciscan Lecture, delivered by Mr. Harold E. Goad, Director of the British Institute at Florence, together with presentation by Rt. Hon. Lord Loch, on behalf of subscribers, of Memorial Tablet; in March, Reception, on behalf of the Vice-Chancellor of the Univ., to delegates to the Conference for the Scientific Study of International Relations; in July, Presentation by the Vice-Chancellor of Petrie Medal for distinguished work in Archæology, to Sir Aurel Stein; in Sept., visit of Japanese Delegation to the Educational Conference held at Geneva, under leadership of Count Hiroto Hayashi.

**STUDENTS.** Full-time: total, 1862, including 264 graduates. Part-time: total, 1387, including 259 graduates.

**DEGREES.** B.A., 85; B.Sc., 77; LL.B., 16; B.Sc. (Eng.), 17; B.A. (Arch.), 3; M.A., 11; D.Lit., 1; Ph.D., 22; M.Sc., 8; D.Sc., 9; LL.M., 1; LL.D., 1; M.Sc. (Eng.), 2.

# UNIVERSITY OF LONDON, KING'S COLLEGE AND KING'S COLLEGE FOR WOMEN

CHAIRMAN OF THE DELEGACY—LORD BLANESBURGH, M.A., LL.D.

VICE-CHAIRMAN—A. J. ALLEN.

TREASURER—Sir EDWARD TROUP, K.C.B., K.C.V.O., LL.D.

PRINCIPAL—W. R. HALLIDAY, M.A., LL.D.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY—S. T. SHOVELTON, M.A. Ox.

TUTOR TO WOMEN STUDENTS—AGNES S. PAUL, M.A., B.D.

LIBRARIAN—F. W. WALTON, M.A.

## PROFESSORS, LECTURERS, ETC.

*Anatomy, Descrip. and Surgical*  
Blair, D. MacCallum, M.B., Ch.B.

Prof. (A. and Anthropol.).

Gladstone, R. J., M.D., C.M.  
Aberd., D.P.H., F.R.C.S.

Reader (Human Embryology) and Lectr. (A. and Anthropol.).

Compton, A., F.R.C.S.

Lectr. (Applied A.).

Coghill, Violet A. P., M.B., Ch.B.  
(Ed.) Lectr.

Wakeley, C. P. G., F.R.C.S.,  
F.R.S.E. Lectr.

2 Demrs.

*Anthropology*, v. Anat.

*Art, Ecclesiastical*

Dearmer, P., D.D. Ox. Prof.

*Assyriology*

Gadd, C. J., M.A. Ox. Hon. Lectr.

Smith, S., M.A. Camb. Hon. Lectr.

*Bibliography*, v. English

*Biology*, v. Zool.

*Botany and Plant Biology*

Gates, R. Ruggles, M.A. Mt.

Allison, B.Sc. McG., Ph.D.

Chic., LL.D. Prof.

Schwartz, E. J., M.A., D.Sc.

Wright, E. C. Barton, M.Sc.

Lectrs.

2 Demrs.

*Chemistry*

Smiles, S., O.B.E., D.Sc., F.R.S.

Daniell Prof.

Allmand, A. J., D.Sc. Liv., F.R.S.  
Prof.

Cremer, H. W., M.Sc.,  
M.I.Chem.E. Senr. Lectr.

Fairbourne, A., M.A. Ox., M.Sc.  
Manc. Lectr.

Salmon, C. S., M.Sc. Bris. Lectr.  
Ward, L. Singlehurst, B.Sc. Lectr.

Asst. Lectrs. :

Dolley, L. G. F., B.Sc., Ph.D.

Gregg, S. J., B.Sc., Ph.D.

McClelland, E. W., D.Sc., Ph.D.,  
A.I.C.

2 Demrs.

*Classics*, v. also History

Thomson, J. A. K., M.A. Prof.  
The Principal Lectr.

Knight, Clara M., D.Lit. Reader.

Hall, E. B., M.A. Lectr.

Handford, S. A., M.A. Ox. Lectr.

Bevan, E. R., O.B.E., M.A., D.Litt.  
Ox., LL.D. St. And.

Lectr. (Hellenistic Greek  
and History).

*Czecho-Slovak, v. Slav.**Education*

- Wilson, J. Dover, M.A. Camb.,  
Litt.D. Prof.  
Hill, J. C., M.Sc. Durh. Lectr.  
Sykes, Betsy, M.A. Asst. Lectr.  
Raven, R. A., M.A. Ox. Asst. Lectr.  
Bazeley, Elsie I., M.A. Asst. Lectr.

*Engineering, Civil*

- Jameson, A. H., M.Sc. Manc.,  
M.Inst.C.E. Prof.  
Lobban, C. H., D.Sc. (Eng.) Reader.  
White, C. M., B.Sc. Lectr.

*Engineering, Electrical*

- Wilson, Ernest, M.I.C.E., M.I.E.E.  
Siemens Prof.  
Robertson, F. Steele Sr. Lectr.  
Clarke, H. M., B.Sc. Lectr.

*Engineering, Mechanical*

- Cook, Gilbert, D.Sc. Manc.,  
M.I.M.E. Prof.  
Davies, S. J., M.Sc. Durh. Reader.  
Giffen, E., M.Sc. Asst. Lectr.

*English*

- Gollancz, Sir Israel, Litt.D. Camb.,  
F.B.A. Prof.  
Pollard, A. W., C.B., M.A. Ox.,  
D.Litt. Durh. Prof. (E. Bibliography).  
Reed, A. W., M.A., D.Lit. (also  
Tutor for Journalism courses)  
Prof.

- Day, Mabel, M.A., D.Lit.  
Lectr. (E. Philology).  
Ingram, E. Gwendolen, M.A.  
Lectr. (E. Philology).  
Isaacs, J., M.A. Ox. Lectr. (E. Lit.).  
Harrison, G. B., M.A. Camb.,  
Ph.D. Lectr. (E. Lit.).  
2 Assts.

*French*

- Saurat, D., D. ès L. Prof.

## Stone, Louise W., M.A.

Reader (Romance Philol.).

- Hughes, R. W., M.A. Ox., Dip.  
d'E.S., Paris Lectr.  
Jones, R. A., M.A. Lectr.  
McKechnie, Margaret M. McL.,  
M.A. Glas., L. ès L. Asst. Lectr.

2 Assts.

*Geography*

- The Profs. of Botany, Geol., Civil  
Engin., Imperial Hist.,  
Physics (in conjunction with  
staff of London School of  
Economics).

*Geology*

- Gordon, W. T., M.A. Camb., M.A.  
Edin., D.Sc., F.G.S., F.R.S.E. Prof.  
Wells, A. K., D.Sc., F.G.S. Reader.  
Wooldridge, S. W., D.Sc., F.G.S. Lectr.

1 Demr.

*German*

- Atkins, H. G., M.A., D.Lit. Prof.  
Steppat, J., Ph.D. Vien., B.A. Reader.  
Rose, W., M.A., Ph.D. Reader.  
Buchheim, Emma S. Lectr.  
Haltenhoff, A. G. Lectr.

*Greek, Modern, and Byzantine  
Hist.*

[Koraes Prof.]

- Marshall, F. H., M.A. Camb.  
Kyriakides, K. Lectr.

*Hebrew*

- Hollis, F. J., B.D. Lectr.  
Ginsberg, M., B.A. Lectr.

*Histology, v. Physiol.**History, v. also Classics, Greek,  
Slav., Roum.*

- Hearnshaw, F. J. C., M.A. Camb.,  
LL.D. Dub. Prof.  
Newton, A. P., B.Sc., M.A., D.Lit.,  
F.S.A. Rhodes Prof. of Imperial H.  
Warmington, E. H., M.A. Reader in Ancient H.

Sykes, N., M.A., D.Phil. Ox.,  
M.A. Leeds  
Lectr. (Mediæval H.).

Asst. Lectrs. :

Driver, C. H., M.A.

Page, Francis M., B.A.

Jenkins, C., M.A. Ox., D.D., F.S.A.  
Prof. (Eccl. H.) and  
Reader (Greek and  
Latin Palæog.).

Jenkinson, Hilary, M.A. Camb.,  
F.S.A.

Reader (Diplomatic and  
English Archives).

1 Asst.

### *Italian*

Vincent, E. R. P., M.A. Lectr.

*Journalism*, v. English

*Law*, v. p. 177

*Materia Medica and Pharmacology*

Inchley, O., M.A., M.D. Camb.  
Lectr.

### *Mathematics*

White, S. A. F., M.A. Ox. Prof.

Jolliffe, A. E., M.A. Ox. Prof.

Dale, J. B., M.A. Camb.,  
Asst. Prof.

Shovelton, S. T., M.A. Ox. Lectr.

Henderson, J., M.A., B.Sc., Ph.D.

Lectr.

Combridge, J. T., M.A. Camb.,  
M.Sc. Lectr.

Asst. Lectrs. :

Edwards, B. A., B.Sc.

Pollard, M. J., B.A., B.Sc.

### *Military Science*

Maurice, Maj.-Gen. Sir Frederick  
B., K.C.M.G., C.B., LL.D.

Prof.

*Palæography*, v. Hist.

*Pharmacology*, v. Mat. Med.

*Philology*, v. English, French,  
Slavonic

*Philosophy*, v. also Psych.

Carr, H. Wildon, D.Litt. Durh.  
Prof.

Oakeley, Hilda D., M.A. McG.  
Reader.

Matthews, W. R., M.A., D.D.  
Prof. of the Philosophy  
of Religion.

*Phonetics*, v. English

### *Physics*

Appleton, E. V., M.A. Camb.,  
D.Sc., F.R.S.

Wheatstone Prof.

Richardson, O. W., M.A. Camb.,  
D.Sc., F.R.S.

Yarrow Research Prof.  
(Royal Society's).

Flint, H. T., D.Sc. Birm., D.Sc.,  
Ph.D. Reader.

Worsnop, B. L., B.Sc., Ph.D. Lectr.

Williams, W. E., M.Sc. Lectr.

Johnson, R. C., M.A., Ph.D., D.Sc.  
Lectr.

Fisher, Joseph W., B.Sc., Ph.D.  
Asst. Lectr.

2 Demrs.

### *Physiology*

McDowall, R. J. S., M.B. Edin.,  
D.Sc., Ch.B., F.R.C.P. (Edin.)

Prof.

Hewitt, J. A., D.Sc., Ph.D. St.  
And., A.I.C. Lectr.

Robson, Wm., M.Sc., Ph.D.

Lectr. (Chem. Physiology).

Wright, Samson, M.D., B.S.,  
M.R.C.P., M.R.C.S. Lectr.

Hon. Lectrs. :

Negus, V. E., M.B., M.S., Ch.M.,  
F.R.C.S. (Laryngology).

Pickering, J. W., D.Sc. (Hæmato-  
logy).

2 Demrs.

*Polish*, v. Slav.

*Portuguese* [Camoëus Prof.

Prestage, E., M.A., D.Litt.

Bentley, W. A. Lectr.

### *Psychology*

Aveling, F. A. P., D.D. Rome,  
Ph.D. Louv., D.Sc., D.Lit.

Reader.

# KING'S COLLEGE & KING'S COLLEGE FOR WOMEN 129

Hadfield, J. A., M.A. Ox., M.B. Edin., Ch.B.	Lectr.	Lavrín, Janko	Hon. Lectr. (Slavonic Lit.).
Bartlett, R. J., M.Sc., A.R.C.S.	Lectr.	Seton-Watson, R. W., D.Litt. Ox., Ph.D. Prague and Zag.	
1 Hon. Demr.		Masaryk Prof. (Central European History).	
<i>Romance, v. French</i>		Subotić, D., Ph.D. Munich, B.Litt. Ox.	
<i>Roumanian</i>		Reader (Serbo-Croatian Lang. and Lit.).	
Beza, M., L. ès L.	Lectr.	Odložilík, O., Ph.D. Prague	
Steed, H. Wickham		Lectr. (Czecho-Slovak Lang. and Lit.).	
Lectr. in Social and Economic History.		Evans, Ifor L., M.A., B.Sc. (Econ.).	
<i>Russian, v. Slav.</i>		Lectr. (Economic Hist. of Central Europe and the Balkans).	
<i>Serbian, v. Slav.</i>		<i>Spanish Studies</i>	
<i>Slavonic Studies</i>		Pastor, A. R., B.Litt. Ox., D.Phil. Madrid	
Pares, Sir Bernard, K.B.E., M.A. Camb.		Cervantes Reader.	
Prof. (Russian Hist.), Dir. of the Dept.		Villasante, J. M., LL.D. Madrid	
Jopson, N. B., B.A. Camb.		Sr. Lectr.	
Reader (Comparative S. Philology).		Perry, Janet, M.A.	Lectr.
Raffi, Arshak		Carey, J. R., B.A.	Asst. Lectr.
Lectr. (Russian Lang.).			
Mirsky, Prince D. S., of Petrograd and Kharkov Univs.		<i>Theology, v. p. 158</i>	
Lectr. (Russian Lit.).		<i>Zoology and Animal Biology</i>	
Meyendorff, Baron A. F., of Petrograd		Mackinnon, Doris L., D.Sc. Aberd.	
Reader (Russian Institutions, etc.).		Prof.	
Krzyzanowski, Julian, Ph.D.		Huxley, J. S., M.A. Ox.	
Lectr.		Hon. Lectr.	
Wharton, L., M.A. Ox.		Tribe, Margaret, D.Sc.	Lectr.
Hon. Lectr. (Polish Lang. and Lit.).		Brambell, F. W. R., B.A., D.Sc., Ph.D.	Lectr.
		2 Demrs.	

## GENERAL INFORMATION

Address—Strand, W.C.2.

Founded by Royal Charter in 1829 for "instruction in the various branches of Literature and Science and the doctrines and duties of Christianity," King's College consisted at first of a School and Departments of General Literature, Science, and Medicine, to which were added successively Engineering, Theological, and Oriental Depts. The Hospital was built in 1839; the Evening Classes were started in 1856, and a Women's Dept. in 1881. In 1910 the College School became a separate Corporation, the Hospl. and Advanced Med. School were made independent, the other Depts. (except the Theological) doing work of University standard were incorporated in the Univ. of London, while the Council remained the governing body of the Theol. Dept., which became a School of the Univ. In 1915 the Arts and Science Departments

of King's College for Women, previously housed in South Kensington, were transferred to the buildings of King's College, and the Household and Social Science Department to new buildings on Campden Hill. The Dept. of Household and Social Science became a separate instn. in 1928 under the title of King's Coll. of Household and Social Science, v. *infra*. The School of Slavonic Studies and the Slavonic Library has now been transferred to 40 Torrington Square, W.C.1.

**LIBRARY**, 75,000 vols., including the Marsden (Philol. and Oriental), Skeat and Furnivall (English), Wheatstone (Electricity, etc.), Slavonic, and Byzantine and Modern Greek collections.

**LABORATORIES AND MUSEUMS.** Anat. (Hughes Collection), Comp. Anat., Biol., Bot., Chem., Engin., Geol. and Mineral., Mat. Med., Metall., Pharmacol., Physics, Physiol. (including Bio-Chem. and Histol.), Psych., Zool.

**FACULTIES.** Arts, Laws, Natural Science, Medical Science, Engineering. Theology. Deans: Prof. Atkins (German), H. J. H. Mackay, Prof. White (Maths.), Prof. R. J. McDowall, Prof. E. Wilson, Rev. W. R. Matthews.

*Evening Class Department* (classes in connexion with faculties of Theology, Arts, and Law). Dean, Prof. Sir Israel Gollancz.

**DEGREE COURSES** in Arts, Science, Laws, Engineering. Prelim. and Interm. courses in Medicine, and courses for the First and Second Examns. for Dental Degrees. Day Training College under the Board of Education. Dept. for training secondary Teachers (men and women).

Engineering students receive preliminary workshop training in their first year. Facilities are provided for spending half of each summer vacation in engineering works. Those taking 4-years' course spend part of each year (18 months in all) in practical training.

*College Diploma* course in Engineering, ordinarily 3 yrs. A one-year post-graduate course in Chem. Eng. is provided, dealing with the general principles of Applied Chem. as a preparation for industrial posts. The *Associateship*, open to men and women who have graduated after a three-years' course and have also attended a prescribed course in Divinity. *Certificates* in Palæography, Italian, Hebrew, Syriac, Spanish, Portuguese, Russian, Czecho-Slovak, Serbo-Croat, and Polish.

**ADVANCED STUDY.** Special facilities in English (including Bibliography), History (especially Mediæval, Colonial, Eastern Europe, and Ancient), Slavonic, Spanish, Portuguese, Modern Greek, Education, and several Depts. of Science.

**FEES.** Tuition per Session, including fees for games, library, and union society: Arts, 30 to 37 gs. (Psychology, Honours course, 34 gs.); Science, 35 to 50 gs.; Med., 35 to 40 gs.; Laws, 18 to 24 gs.; Engin., 48 to 60 gs.

**SCHOLARSHIPS FOR GRADUATES.** In Arts 2, aggregate value £115 p.a.; Science 3, ag. value £290 p.a.

**RESIDENCE.** Two hostels for men (one Theol. for 72 men and one general for 73 men), and one for (58) women (these Hostels are recognized by the Board of Education).

A REGISTER OF FORMER STUDENTS is maintained, in which changes of address are recorded without charge.

**PUBLICATIONS.** Separate Syllabus for each Faculty post free. *Calendar*, 4s. 6d. post free; *K.C. Review*.

## THE YEAR 1928-29

**BENEFACTIONS.** Dr. Aldred Turner, for the Anatomy Dept., a collection of about 100 slides, photographs of sections of brain and spinal cord, prepared by Sir David Ferrier and himself. Mrs. Groves (widow of Prof. Groves, Prof. of Botany in the Coll. from 1887 to 1893), 1200 Bot. and Zool. slides. Edison Swan Electric Co., Ltd., 2 new electric supply meters for the Dept. of Elect. Eng. Prof. A. H. Jameson, an 8-inch Zeiss Level to the Dept. of Civil Eng.

**NEW BUILDINGS.** The new East Wing over the Aldwych Underground Rly. Station, providing accommodation for the Depts. of Geol., Geog., Hist., Edn., French, Journalism, and Classics, was completed. The new wing of the Hostel in Vincent Square was opened.

**VISITS OF PROFESSORS.** Prof. A. P. Newton visited the Univ. of the Punjab and gave the Convocation Address in Dec. 1928, in Lahore. Prof. Sir Bernard Pares lectured in 25 Univs. of the U.S.A. during the Lent Term, 1929. Prof. E. V. Appleton attended the Brussels Meeting of the Union Radio Scientifique Internationale as the representative of the British National Committee for Radio-Telegraphy in Sept. 1928. Dr. F. A. P. Aveling lectured at six of the Univs. of the Middle West of America in connexion with the International Congress of Psychology held at Yale Univ. in the summer of 1929. Dr. G. B. Harrison visited the Univ. of Chicago as holder of the Frederick Ives Carpenter Professorship at the Summer School in 1929. Mr. S. J. Davies delivered courses of lectures at the *Techn. Hochschulen* of Charlottenburg and Dresden.

Among visitors who lectured in the Coll. were: Mons. Leon Pierre Quint; Prof. Pedro Salinas (Madrid); Mons. Fernand Gregh (Sorbonne); His Grace the Archbishop of Upsala; Prof. Anathon Aall (Oslo); Prof. Henri Hauser (Paris); Prof. P. Karrer (Zurich).

**RESIGNATIONS.** Dr. W. H. J. Childs; R. K. Christy; Dr. W. R. I. Cook; H. R. Davis; D. L. Linton; Dr. O. Vočadlo; P. Lloyd Williams; Miss M. D. Yardley.

**STUDENTS.** Full-time day students working for a degree or diploma (including Theol.): total, 1460, including 101 graduates.

Part-time: total, 1257, including 96 graduates.

**DEGREES OBTAINED.** B.A., 114; B.Sc., 80; B.Sc. (Eng.), 31; LL.B., 7; B.D., 4; Diplomas, 166. Higher Degrees: M.A., 10; M.Sc., 3; Ph.D., 17; D.Lit., 3; LL.D., 1; D.Sc., 1.

# SCHOOLS OF THE UNIVERSITY

## IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

VISITOR—H.M. THE KING.

CHAIRMAN OF THE GOVERNING BODY—Rt. Hon. LORD BUCKMASTER.

RECTOR—HENRY THOMAS TIZARD, C.B., F.R.S.

SECRETARY—A. GOW, M.A., B.Sc.

ASSISTANT SECRETARY, SECRETARY TO THE DELEGACY, AND REGISTRAR  
—G. C. LOWRY, M.A.

### PROFESSORS, LECTURERS, ETC.

#### *Aeronautics*

Bairstow, L., C.B.E., A.R.C.S.,  
F.R.S. Prof. (Aviation).

Walker, Sir Gilbert T., C.S.I.,  
M.A., Sc.D., Ph.D., F.R.S.  
Prof. (Meteorol.).

Hill, F. T., F.R.Ae., S.M.I.Ae.E.  
Asst. Prof. (Design).

Lectrs. :

Richmond, V. C., O.B.E., B.Sc.,  
A.R.C.S. (Airships).

Rowe, A. P., B.Sc., A.R.C.S.,  
D.I.C. (Navign. and Instrs.).

Farren, W. S., M.B.E., M.A. Camb.  
(Strength of Struts.).

Moss, H., D.Sc., A.R.C.S., D.I.C.  
(Engine Design).

Stern, W. J., B.Sc., A.R.C.S.,  
D.I.C. (Engine Design).

2 Demrs.

#### *Astrophysics*

[Prof.  
Fowler, A., A.R.C.S., D.Sc., F.R.S.  
(Yarrow Research Prof.)

#### *Bio-Chemistry*

..... Prof.

#### *Biology*, v. also Bot., Zool.

Tabor, R. J., B.Sc. Asst. Prof.

Paine, S. G., D.Sc. Asst. Prof.

Hewer, H. R., A.R.C.S., M.Sc.,  
D.I.C. Lectr.

Howarth, F., B.Sc., A.R.C.S.

Lectr.

Henderson, F. Y., M.A., D.Sc.

Lectr.

6 Demrs.

#### *Botany*

Blackman, V. H., M.A., Sc.D.  
Camb., F.R.S.

Prof. (Plant Physiol. and  
Path.), Dir. Biol. Labs.

Groom, P., M.B.E., M.A. Ox. and  
Camb., D.Sc. Ox., B.Sc. Birm.,  
F.R.S.

Prof. (Tech. of Woods &  
Fibres).

Brown, W., M.A., D.Sc.

Prof. (Plant Path.).

4 Research Plant Physiologists.

#### *Chemical Technology*

Bone, W. A., D.Sc. Manc., Ph.D.  
Heid., F.R.S. Prof.

Hinchley, J. W., A.R.S.M., F.I.C.,  
M.I.Chem.E.

Prof. (Civ. Eng.).

Finch, G. I., M.B.E., Dip. T.C.  
Zürich

Asst. Prof. (Electro-  
Chem. and Electro-  
therm.).

Himus, G. W., B.Sc., A.R.C.S.,  
D.I.C. Lectr. (Fuel).

Hancock, W. C., B.A. Camb.  
Lectr. (Refr. Mat. & Silicates).

Ure, S. G. M., M.A., B.Sc. Glas.  
Lectr.

1 Demr.

*Chemistry*

Baker, H. Brereton, C.B.E., M.A.,  
D.Sc. Ox., LL.D. Aber.,  
F.R.S. Prof.

Thorpe, J. F., C.B.E., D.Sc.  
Manc., Ph.D. Heid., F.R.S.  
Prof. (Org. Chem.).

Philip, J. C., O.B.E., M.A., D.Sc.  
Aberd., Ph.D. Gött., F.R.S.  
Prof. (Phys. Chem.).

Whiteley, Martha A., O.B.E.,  
D.Sc., A.R.C.S. Asst. Prof.

Lectrs. :

Harwood, H. F., M.Sc. Manc.,  
Ph.D. Heid.

Eldridge, A. A., B.Sc.

Sugden, J. N., Ph.D., D.I.C.

Ellingham, H. T., B.Sc., A.R.C.S.

Bull, P. C., D.S.O., A.R.C.S.

Kon, G. A. R., M.A., D.Sc.,  
D.I.C.

Pollard, A. G., B.Sc., A.R.C.S.

7 Demrs.

*Engineering, Chemical, v. Chem.  
Tech.*

*Engineering, Civil, and Surveying*

Dixon, S. M., M.A., M.Sc., B.A.I.  
Dub. Prof.

Clements, R. G. H., M.C.,  
M.Inst.C.E.

Prof. (Highway Engin.)

Purser, J., B.A., B.A.I. Dub.,  
M.Sc. Birm. Asst. Prof.

Rice-Oxley, K., A.C.G.I.  
Asst. Prof.

Shearer, W. V., B.Sc., M.Inst.C.E.  
Lectr.

2 Demrs., 1 Asst.

*Engineering, Electrical*

Fortescue, C. L., O.B.E., M.A.  
Camb., M.I.E.E. Prof.

Mallett, E., D.Sc. (Eng.), M.I.E.E.  
Asst. Prof.

Lectrs. :

Rushton, A., M.Sc. (Tech.) Manc.  
Sims, J. W.

Hopkin, D. W.

Sutton, G. W., B.Sc.

Barrett, A. H., B.Sc., A.C.G.I.,  
D.I.C.

5 Demrs., 1 Asst.

*Engineering, Mechanical, and  
Motive Power*

Dalby, W. E., M.A. Camb., B.Sc.,  
M.Inst.C.E., M.I.Mech.E.,  
F.R.S. Prof.

Witchell, E. F. D., B.Sc., A.C.G.I.,  
M.I.Mech.E. Asst. Prof.

Cruickshank, A., M.I.Mech.E.  
Asst. Prof.

Howard, J. V., D.Sc. Asst. Prof.  
Smith, S. L., D.Sc., A.C.G.I.  
Asst. Prof.

Lectrs. :

Lewitt, E. H., B.Sc. (Eng.).

Cawley, G. M.

Dyson, F., B.Sc., A.C.G.I.

Collins, W., B.Sc., A.C.G.I.

Long, J. N., D.Sc.

4 Demrs., 1 Asst.

*Forestry, v. Botany*

*Fuel, v. Chemical Technology*

*Geology, Mining Geol., and Oil  
Tech.*

Watts, W. W., M.A., Sc.D. Camb.,  
M.Sc. Birm., LL.D. St. And.,  
F.R.S. Prof.

Cullis, C. G., D.Sc.

Prof. (Econ. Mineralogy).

Davies, A. M., D.Sc., A.R.C.S.  
Asst. Prof. (Palæont.).

Illing, V. C., M.A. Camb.  
Asst. Prof. (Oil Tech.).

Brammall, A., M.Sc., Ph.D., D.I.C.  
Lectr. (Petrology).

Wolf, A. Lectr.

Milner, H. B., M.A. Camb., D.I.C.  
Lectr.

Jones, W. R., D.Sc., D.I.C. Lectr.  
4 Demrs.

*Mathematics and Mechanics*

Chapman, S., M.A. Camb., D.Sc.  
 Vict., F.R.S. Chief Prof.  
 Levy, H., D.Sc. Ox., M.A., B.Sc.  
 Edin. Prof.  
 Odell, W. L., A.R.C.S. Asst. Prof.  
 Dean, W. R., M.A. Asst. Prof.  
 Kronig, R. de L., M.A., Ph.D.  
 Asst. Prof.

## Lectrs. :

Hodgson, T., B.A. Ox., B.Sc.  
 Milner, L. G., A.R.C.S.  
 Dickson, T. W., B.A. Ox., M.C.  
 Harvey, J., B.Sc., A.R.C.S.  
 Kebby, C. H., M.Sc., A.R.C.S.  
 Reeve, W.  
 10 Demrs.

*Metallurgy*

[Prof.  
 Carpenter, Sir Harold, M.A. Ox.,  
 Ph.D. Leip., A.R.S.M., F.R.S.  
 Merrett, W. H., A.R.S.M.,  
 M.I.M.M., F.I.C. Asst. Prof.  
 Courtman, E. O., A.R.S.M.  
 Asst. Prof.  
 Chapple, H. M., A.R.S.M. Lectr.  
 Dannatt, C. W., A.R.S.M., D.I.C.  
 Lectr.

3 Demrs.

*Meteorology, v. Aero.**Mineralogy, v. Geol.**Mining, v. also Geol.* [Prof.

Truscott, S. J., A.R.S.M., M.I.M.M.  
 ..... Prof. (Mine Surveying).  
 Holman, B. W., O.B.E., A.R.S.M.,  
 M.I.M.M. Asst. Prof.  
 Sillick, W. E. G., A.R.C.S., D.I.C.  
 Asst. Prof.  
 Webb, A. H., M.I.M.M. Lectr.  
 3 Demrs.

*Oil, v. Geol.**Optics, Technical* [Prof.

Rankine, A. O., O.B.E., D.Sc.  
 Conrady, A. E., A.R.C.S.  
 Prof. (O. Design).  
 Pollard, A. F. C., A.R.C.S.,  
 F.Inst.P.  
 Prof. (O.E. (Mech.) and  
 Instrument Design).

Martin, L. C., D.Sc., A.R.C.S.,  
 D.I.C. Asst. Prof.  
 1 Demr.

*Petrology, v. Geol.**Physics, v. also Astrophysics*

..... Prof.  
 Rankine, A. O. (v. Optics) Prof.  
 Dingle, H., B.Sc., A.R.C.S.  
 Asst. Prof.  
 Gregory, H. S., Ph.D., D.I.C.  
 Asst. Prof.

## Lectrs. :

Brinkworth, H., M.Sc., A.R.C.S.  
 Bell, Mary, B.Sc., A.R.C.S.  
 Green, S. E., A.R.C.S.  
 Archer, C. T., M.Sc., A.R.C.S.  
 Ensor, C. R., B.Sc., A.R.C.S.  
 9 Demrs.

*Refractory Materials and Silicates, v. Chemical Tech.**Woods and Fibres, v. Botany**Zoology, v. also Biol.* [Prof.

MacBride, E. W., M.A. Camb.,  
 LL.D. McG., D.Sc., F.R.S.  
 Balfour Browne, F., M.A. Camb.  
 Prof. (Entomol.).  
 Munro, J. W., D.Sc., M.A.  
 Asst. Prof. (Entomol.).

## GENERAL INFORMATION

Address—Imperial Institute Road, S. Kensington, S.W.7.

Telegrams—Scientist, Southkens, London.

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges :

The Royal College of Science.

The Royal School of Mines.

The City and Guilds (Engineering) College.

The departments and (in brackets) sub-departments are: Aeronautics (Aerodynamics, Meteorology), Biology (Bio-Chemistry, Plant Physiology and Pathology, Technology of Woods and Fibres), Chemical Technology (Chemical Engineering, and Fuel and Refractory Materials), Chemistry (Inorganic, Organic, and Physical), Engineering—Civil and Surveying, Electrical, Mechanical, and Motive Power, Geology (Economic Mineralogy, Mining Geology, Technology of Oil), Mathematics and Mechanics, Metallurgy, Mining (Mining Geology, Mining Surveying), Technical Optics (Optical Design, Instrument Design), Physics (Astrophysics), Zoology (Entomology).

The total staff exceeds 200. The College is a School of the University in Science and Engineering. Students who are registered as candidates for one of the Associateships, and who have matriculated at the Univ. of London by examn. or exemption, are eligible for the B.Sc. (Special) Degree of the Univ., in the Facs. of Sci. or Eng., on the examns. for the relative Associateship, if the Univ.'s regns. are complied with. This arrangement is subject to review in 1932. The buildings occupy about 8 acres and cost with equipment over £1,000,000.

The courses of study are designed for students of Univ. standard whose vocations will be concerned with the scientific aspects of industries.

**LIBRARIES, ETC.** The Library of the Science Museum is available for the use of Students, and each Dept. is provided with a special Library, RESEARCH LABORATORIES, and full facilities for advanced study.

**ADMISSION.** The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed; the prescribed qualifications give no right to admission, but will be considered with others of which the candidate may give evidence. (i.) *R.C.S. and R.S.M.* A candidate for admission must be as a rule not less than 17 yrs. of age. For admission to 1st yr. Assoc. courses an Entrance examn. in Maths. and Mechanics, Chem. Physics, Engl., French or German or Spanish or Italian, and Geometrical or Freehand Drawing, must be passed, unless equivalent examns. have been passed elsewhere. (The Matricn. examn. of the Univ. is considered equivalent provided the student has passed in "More Advanced Maths." and "Elem. Mechanics," and in the other subjects prescribed for the Entrance examn.). Candidates for admission to a 2nd yr. must pass the College Entrance examn. in more advanced Maths., Mechanics, Chem., and Physics, unless equivalent examns. have been passed elsewhere. For admission to a 3rd yr. candidates must have reached a standard correspondingly higher. (ii.) *City and Guilds.* A candidate desiring to enter for the 1st yr. of the Assoc'ship course must be at least 16 yrs. of age and must pass entrance examn. in Maths. and Mechanics, Geom. Drawing, Phys., or Chem., Engl., and French or German or Italian or Spanish, unless he has passed the Matricn. examn. of the Univ., taking certain specified subjects, including More Advanced Maths. For admission to the 2nd yr. course candidates must take the easier and more advanced papers, Geom. and Mach. Drawing, and practical Chem. in the College examn., or they must have passed the Intern. B.Sc. (Eng.) in the Univ. in Maths., Pure and Applied, Heat, Elec. and Magn., Eng., Drawing and Design, and Chem. Candidates for admission to advanced or research work in the *R.C.S., R.S.M., or C. and G.* must satisfy the Coll. authorities as to their previous training.

**DIPLOMA AND OTHER COURSES.** Assoc'ship of each of the 3 associated Colls., 3 or 4 yrs.; specially arranged courses in Advanced Sci. or Techn., 1 or more yrs., leading to the Diploma of the Imperial Coll.; short courses dealing with special subjects for graduates or persons engaged in scientific industrial pursuits; occasional courses to suit individual needs.

**FEES.** Entrance, £2; Tuition, per session, for full-time Associateship or Post-Assoc'ship courses of study, £62: 10s. (including Union fees); for less than full-time courses, *pro rata*; for Research Work the fee is £22: 10s. per session (including Union fees), but an additional charge may be made for expensive apparatus or chemicals. Graduates from other Institutions taking the 4th year Assoc'ship course in Botany will be charged fees at the Research rate of £22: 10s.

**SCHOLARSHIPS** for post-grad. work: Beit Fellowship for Research, v. Appendix XXIII. (B. v.); £300 Plimmer Fellowship in Pathology; £100 in Botany; and many others (v. *Calendar*).

**AFFILIATION, ETC.** The Univ. of Sheffield is associated with the Coll. for Advanced Studies in the Metallurgy of Iron and Steel. Students of Huddersfield Technical Coll. may be admitted, subject to certain conditions, without examn.

**PUBLICATIONS.** *Annual Report*; *Calendar*, with list of Associates, pubd. by the Coll.

## THE YEAR 1928-29

**NEW DEPARTMENTS AND POSTS.** Univ. of London, Maybury Chair of Highway Engineering (Sub-Dept. of Civ. Eng.). Prof. R. G. H. Clements, M.C., M.Inst.C.E.

**CHANGES IN REGULATIONS.** The alternative Entrance Examn. in April each yr. has been dropped after five yrs.' trial, and the only Scholarship and Entrance Examn. will in future be in Sept.

**DEATHS.** Prof. S. B. Schryver, Biochemistry; Prof. L. H. Cooke, Mine Surveying.

**RESIGNATIONS.** Sir Thomas Holland (Rector); Prof. Sir John Farmer, Director of the Biological Laboratories; H. Zanstra, Asst. Professor, Maths.

**DIPLOMAS GRANTED.** A.R.C.S., 73; A.R.S.M., 24; A.C.G.I., 80; D.I.C., 101. Total, 278.

**STUDENTS.** Full-time, 941, including 203 graduates. Part-time, 90, including 32 graduates.

**DEGREES OBTAINED.** B.Sc. in Science, 75; in Engineering, 63; higher degrees in Science: Ph.D., 25; M.Sc., 18; D.Sc., 3; higher degrees in Engineering: Ph.D., 3; M.Sc., 2; D.Sc., 1.

## EAST LONDON COLLEGE

CHAIRMAN OF THE COLLEGE COUNCIL—SIR LYNDEN MACASSEY, K.B.E.,  
K.C.

PRINCIPAL—J. L. S. HATTON, M.A.

REGISTRAR—E. J. WIGNALL.

### PROFESSORS, LECTURERS, ETC.

#### *Aeronautical Engineering*

Piercy, N. A. V., D.Sc. (Eng.)

Lectr.

#### *Botany*

[Prof.]

Fritch, F. E., Ph.D. Mün., D.Sc.

Haines, F. M., B.Sc., Ph.D. Lectr.

Carter, Nellie, D.Sc. Birm. Lectr.

Lectrs. :

John, W. J., D.I.C.

Stoner, C. R., B.Sc.

#### *English Lang. and Lit.*

Nicoll, J. R. Allardyce, M.A. Glas.  
Prof.

Lectrs. :

Williams, O. T., M.A. Wales.

Budd, F. E., B.A.

#### *Chemistry*

Partington, J. R., M.B.E., D.Sc.  
Manc. Prof.

Robertson, A., M.A., B.Sc., Ph.D.  
Glas. Reader.

Lectrs. :

Jones, D. C., M.Sc. Wales, Ph.D.

Johns Hopkins

Patterson, W. H., D.Sc. Manc.

Bury, F. W., M.Sc. Manc.

King, F. E., B.Sc., Ph.D. Lond.

#### *Classics*

Earp, F. R., M.A. Camb. Prof.

Mozley, J. H., M.A. Camb. Lectr.

#### *Engineering, Civil and Mechanical, v. also Aero.*

Lamb, E. H., D.S.C., M.Sc. Manc.

Prof.

Higgins, A. L., M.Sc. Belf.

Lectr. (Civil E.).

Wedgwood, G. A., M.Sc. Belf.

Lectr. (Mech. E.).

Brendel, F. C. L., B.Sc. Lectr.  
2 Assts.

#### *Engineering, Electrical*

[Prof.]

MacGregor-Morris, J. T., M.I.E.E.

#### *Mathematics, Pure and Applied*

Le Beau, G. S., M.A. Ox. \*

The Principal

Reader in Geometry.

\* Head of Department.

<i>Law</i>	Ball, A. E., B.A. Camb. Lectr.
Welford, A. W. Baker, M.A. Camb. *	<i>Philosophy, Psychology, and Logic</i>
(Jurispr., Com. L., Merc. L., Conflict of Laws).	Keeling, S. V., B.A. Camb., M.A., D. ès L. Montpellier. Lectr.
O'Malley, B. L. A., B.A. Camb. Lectr. (Roman L., Hist. of English L.).	<i>Physics</i> [Prof. Griffiths, A., D.Sc. Manc., A.R.C.S. Simons, L., D.Sc., F.Inst.P. Reader.
Richardson, J. B., M.A., LL.B. Camb. Lectr. (Equity, Eng. Law of Property, etc.).	Clack, B. W., D.Sc., Ph.D., F.Inst.P. Lectr.
Goitein, H., LL.D. Lectr. (Const. and Crim. L.).	Nettleton, H. R., D.Sc. Lectr.
<i>Mathematics, Pure and Applied</i>	<i>Zoology</i>
Smart, E. H., M.A. Camb. *	Jackson, H. G., D.Sc. Liv. Prof.*
Dienes, P., D.Ph. (Budapest), D. ès Sc. (Paris) Reader.	Spaul, E. A., B.Sc., Ph.D. Lectr.
Fox, C., M.A. Camb., D.Sc. Lectr.	Russell, Lilian, B.Sc. Sheff., M.Sc. Demr.
Cooke, R. G., D.Sc. Lectr.	

#### Matriculation Department

\*W. Walker, M.A. Manc., B.Sc., H. E. Weaver, B.Sc., Lectr., and 9 specialists from other depts.

\* Head of Dept.

## GENERAL INFORMATION

Address—Bream's Buildings, E.C.4.

Founded 1823 by Dr. George Birkbeck "for the purpose of giving education to students in the principles of the arts they practise, and in the various branches of Science and useful knowledge." A School of the Univ. in Arts and Science for evening and part-time students for 5 yrs. from Oct. 1925. *Library*: 20,000 vols., including special Science Departments. Complete courses for degrees in Arts and Science and also in Laws, and for the Academic Diploma in Geog. and for the Inst. of Chem. examns., and matricn. courses. *Fees*, including subs. to Students' Union: Arts and Laws, £10; Science, £12. Post-grad. work, 3 gs. to 5 gs. *Playing Fields* (18 acres) at Greenford. *Publications*: *Calendar*, 1s.; *Annual Report*; *Lodestone*, 6d. (Students, terminally).

## THE YEAR 1928-29

**BENEFACTIONS.** The late Viscount Haldane, President of the Coll., a legacy of £1000. The Governors have decided to use it in connexion with the new buildings; Lady Cooper, £100 towards levelling and draining the Athletic Ground; and the Trustees of the City Parochial Foundation a further grant for this purpose.

**BUILDINGS.** The Senate has decided that provision shall be made for the needs of Birkbeck College on the Bloomsbury site. The new Sports Pavilion at Greenford, cost about £9000, was opened in May by Lord Balfour of Burleigh.

**STUDENTS.** Part-time: total, 1227, including 292 graduates.

**DEGREES OBTAINED.** B.A., 40; M.A., 4; Ph.D., 1; D.Lit., 1; B.Sc., 32; M.Sc., 3; Ph.D., 1; D.Sc., 1; LL.B., 2.

# LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

CHAIRMAN OF COURT OF GOVERNORS—Rt. Hon. Sir ARTHUR STEEL-  
MAITLAND, Bart., LL.D., M.P.

VICE-CHAIRMAN—Hon. Sir JOHN COCKBURN, K.C.M.G., M.D.

DIRECTOR—Sir WM. H. BEVERIDGE, K.C.B., M.A., B.C.L. (Ox.), LL.D.

SECRETARY—Mrs. MAIR, M.A. LIBRARIAN—B. M. HEADICAR.

## PROFESSORS, LECTURERS, ETC.

- |  |  |
|--|--|
| <i>Accountancy and Business Methods</i> , v. also Com.       | <i>Economics</i> , v. also Indian E. and Russia        |
| de Paula, F. R. M., O.B.E., F.C.A. Cassel Prof.              | Robbins, L., B.Sc. (Econ.) Lond., M.A. Ox. Prof.       |
| Hughes, C. J. G., LL.B., F.C.A. Reader.                      | The Director (Descriptive E. and Public Admn.) Lectr.  |
| Rowland, S. W., F.C.A. (S) (Railway Accounting).             | Dalton, Hugh, M.A. Camb., D.Sc. (Econ.), M.P. Reader.  |
| D'Eath, D. C., F.C.I.S. (S) ( <i>Secretarial Practice</i> ). | Schwartz, G. L., B.A., B.Sc. Lond. (S).                |
| <i>Anthropology, Social</i> , v. also                        | 2 Assts.   |
| <i>Ethnology</i>   | <i>English</i>   |
| Malinowski, B., Ph.D. Cracow, D.Sc. Prof.                    | Reed, A. W., M.A., D.Lit. Prof. (and at King's Coll.). |
| Burkitt, M. C., M.A. Camb. (S).                              | 2 Assts.   |
| <i>Banking and Currency</i> , v. also                        | <i>Ethnology</i> , v. also Anthropology                |
| Commerce   | Seligman, C. G., M.D., F.R.C.P., F.R.S. Prof.          |
| Gregory, T. E., D.Sc. (Econ.) Cassel Prof.                   | Joyce, T. A., O.B.E., M.A. Ox. (S).                    |
| 1 Asst.  | <i>Finance</i> , v. Politics                           |
| <i>Commerce and Industry</i> , v. also                       | <i>French</i> , v. Modern Languages                    |
| Law, Transport   | <i>French History and Institutions</i>                 |
| Sargent, A. J., M.A. Ox. Prof.                               | Vaucher, P., D. ès L. Paris Prof.                      |
| Forrester, R. B., M.A. Edin., M.Com. Manc. Reader.           | <i>Geography</i> , v. also Commerce                    |
| Rowe, J. W. F., M.A. Camb., M.Sc. (Econ.) Lectr.             | Jones, L. Rodwell, B.Sc., Ph.D. Prof.                  |
| Marshall, T. H., M.A. Camb. (Lectr. in History also) Lectr.  | Stamp, L. D., B.A., D.Sc. Reader (Economic Geog.).     |
| Whale, P. B., B.Sc. (Econ.), M. Com. Lectr.                  | Ormsby, Hilda, B.Sc. (Econ.) Lectr.                    |
| Anstey, Vera, B.Sc. (Econ.) Lectr. 1 Asst.                   |  |

(S) = Special Lectr., not on the School Staff.

- Robinson, L. G., M.A. Ox.  
Lectr. (Historical Geog.)
- 3 Assts.  
*German*, v. Modern Languages  
*History, Economic*, v. also  
Politics
- Tawney, R. H., B.A. Ox. Reader.  
Power, Eileen E., M.A., D.Lit.  
Reader.
- Beales, H. L., M.A. Manc. Lectr.  
2 Assts.  
*Imperial Economic Relations*  
Coatman, J., B.A. Manc. and Ox.  
Prof.
- 1 Asst.  
*Indian Economics*  
Slater, Gilbert, M.A. Camb., D.Sc.  
(Econ.) (S).
- International History*  
Toynbee, A. J., B.A. Ox.  
Stevenson Prof.
- International Relations*  
..... Cassel Prof.  
Bertram, Sir Anton, M.A. (S).  
2 Assts.
- Law*, v. p. 177  
Gutteridge, H. C., M.A., LL.M.  
Camb., LL.D. Lond.  
Cassel Prof.
- Smith, H. A., M.A. Ox.  
Prof. (International L.).
- Parry, D. Hughes, B.A., LL.M.  
Camb. and Wales, Barr.-at-  
Law Reader (English L.).
- Jennings, W. I., M.A., LL.B.  
Camb. Lectr. (English L.).
- Robson, W. A., LL.M., Ph.D.  
Lond.  
Lectr. (Indust. & Admin. L.).
- Allemès, F., B. ès L., L. ès L.  
Avocat, (S) (Code Civil).
- Ball, W. V., O.B.E., M.A. Camb.,  
Barr.-at-Law. (S) (Railway L.).
- Hemmant, D. G., Barr.-at-Law  
(Company L.) (S).
- Jenks, Edward, M.A., D.C.L.  
(English L.) (S).
- Maxwell, E. F. M., Barr.-at-Law  
(Railway L.) (S).
- 2 Assts.  
*Logic, Psychology, and Philo-  
sophy*  
Wolf, A., M.A. Camb., D.Lit.  
Prof. (Logic and Scientific  
Method).
- Lectrs. on Industrial Psycho-  
logy :  
Bevington, Sheila, B.Sc. (Econ.)  
(S).
- Farmer, Eric, M.A. (S).
- Macrae, A., M.A., M.B., Ch.B. (S).
- Myers, C. S., C.B.E., M.A., M.D.,  
Sc.D. Camb., F.R.S. (S).
- Smith, May, M.A. (S).
- Modern Languages \**  
Gill-Mark, Grace, M.A. Camb.  
Asst.
- Mainland, W. F., M.A. Edin.  
Asst.
- Politics and Public Administra-  
tion*  
Laski, H. J., M.A. Ox. Prof.
- Lees-Smith, H. B., M.A. Ox., D.Sc.  
(Econ.), M.P.  
Reader (Pub. Admn.).
- Finer, H., D.Sc. (Econ.)  
Lectr. (Pub. Admn.).
- Smellie, K. B., B.A. Camb.  
Lectr. (Pub. Admn.).
- Wallas, Graham, M.A. Ox., Litt.D.  
Manc., Emeritus Prof., Univ.  
London  
Lectr. (Pol. Science) (S).
- 1 Asst.  
*Russian Institutions and Eco-  
nomics*  
Meyendorff, A. Reader.

(S)=Special Lectr., not on the School Staff.

\* Preparatory for B.Sc. (Econ.), Final, or for B.Sc. (Econ.) Intermediate :  
language courses for B.Com. are provided chiefly at King's and Univ. Colls.

<i>Shipping</i> , v. Transport	Tredgold, A. F., M.D., F.R.S.E.
<i>Social Science and Administration</i>	(S).
Lloyd, C. M., M.A. Ox., Barr.-at-Law	<i>Sociology</i> , v. also Anthropology
Head of Dept.	..... Martin-White Prof.
Eckhard, Edith V., M.A. Camb.	Westermarck, E. A., Ph.D. Hel-
Senior Tutor.	sing., LL.D. Aberd.
Cullis, Prof. Winifred C., D.Sc.	Martin-White Prof.
(Physiology) (S).	Ginsberg, Morris, M.A., D.Lit.
Hart, B., M.D., F.R.C.P. (Psy-	Reader.
chiatry) (S).	<i>Statistics</i> [Prof.
Davison, R. C., M.A. Ox. (S).	Bowley, A. L., Sc.D. Camb., F.B.A.
3 Assts.	Rhodes, E. C., B.A. Camb., D.Sc.
Lectrs. for Course in Mental	Reader.
Health :	2 Assts.
Burt, Prof. Cyril, D.Sc. (S).	<i>Transport</i> , v. also Acctcy. and
Fildes, Lucy G., B.A., Ph.D. (S).	Law
Hadfield, J. A., M.A., M.B., Ch.B.	Stephenson, W. Tetley, M.A.
(S).	Camb. Cassel Reader.
Lawrence, Evelyn, B.Sc. (S).	Jones, Clement, C.B., M.A. (Sea
Moodie, W., M.D., M.R.C.P. (S).	Transport) (S).
Shrubsall, F. C., M.A., M.D. (S).	1 Asst.
(S) = Special Lectr., not on the School Staff.	

## GENERAL INFORMATION

Address—Houghton St., Aldwych, W.C.2.  
 Telegrams—"Poleconics, Estrand."

Founded 1895. A School of the Univ. recognized in the Faculties of Economics and Political Science (including Commerce and Industry), of Laws, and of Arts (in History, Geography, Sociology, and Anthropology).

Matriculated students are registered as Internal students of the Univ. with a view to the B.Sc. Econ., B.Com., LL.B., and B.A. (with Honours in Geog., Sociology, Anthropol., or History, or the Pass degree with Geog.), or to Higher degrees. Non-matriculated students can be registered for the Academic Diplomas in Geography, Psychology, Public Administration, Journalism, and Sociology and Social Administration, and for the School Certificates in Social Science, in Mental Health, and in International and Diplomatic Studies.

The lectures and classes at the School are open also, under certain conditions, to those who have not matriculated and do not wish to pursue a full Univ. course—in particular to those engaged in banking, accounting, railway and other transport, commerce and industry, to civil servants and municipal officials, to teachers, and to those engaged in or qualifying for social work. To all these the School affords the opportunity of specialized or advanced study on particular topics. The School is open on the same terms to men and to women, and classes and lectures are given both in the day and in the evening.

The School offers special facilities for post-graduate research, under the supervision of professors or otherwise. The *British Library of Political and Economic Science*, which includes the British Library of *Political Science*, the Edward Fry Library of *International Law*, and the Schuster Library of *Comparative Legislation*, also contains a number of special collections, such as the

Acworth collection on Transport, the Hutchinson collection of works in all languages for and against Socialism, and other collections on Trade Unionism, Local Government, and Public Administration. The Library is open not only to those who are taking courses at the School, but, by permission of the Director, to any person desiring to utilize it for research or consultation. The Ratan Tata Foundation for research into social conditions is administered by the School, which maintains in connexion with it a Dept. of Social Science and Administration.

The fee for a complete day course in Economics or Commerce, spread over 3 or 4 years, is 78 guineas; in Law the day fee is 26 guineas a year, and in Arts about £35 a year. In the case of evening students considerable reductions in these fees are made. The fees include privileges of Students' Common Rooms and Athletic Societies. Playing fields at Malden are available for members of the Students' Union.

Research Studentships, £200, in addition to fees, are offered from time to time. Scholarships are awarded on the results of the University Intermediate Exams. There are entrance scholarships, bursaries, and valuable prizes.

Publications: *Studies in Econ. and Pol. Sc.*; *Economica*, a journal of the Social Sciences, thrice annually, 2s. 6d.; *Bulletin of the British Library of Political and Economic Science*, quarterly, 2s. per annum; *The Survey of English Law*, an annual bulletin of developments in English legislation, case-law, and legal literature, 10s. 6d.; *Annual Digest of Public International Law Cases*, about 35s.; *Clare Market Review* (Students, once a term). *Bulletin*—with supplements—of the *London and Cambridge Economic Service* of Statistics and Memoranda, bearing on the current economic position, is maintained by the School, in co-operation with the Univ. of Cambridge and Harvard Univ. Subs. £6 p.a. *School Calendar*, 2s. 6d. or (cloth) 3s. 6d. *Summary programmes* free.

## THE YEAR 1928-29

**BENEFACTIONS.** A grant of £2000 a year for 5 yrs. has been made by the Empire Marketing Board to promote the study of Imperial econ. problems, and is being used, in part, to establish a Chair of Imperial Economic Relations. A grant of £400 a year for 3 yrs. has been made by the Commonwealth Fund in order to establish a course in Mental Health. The Clothworkers', Drapers', and Fishmongers' Companies have each made a grant of £250, and the Noel Buxton Trustees a grant of £200, towards the cost of the New Survey of London Life and Labour. A Scholarship of £30 a year, in memory of Professor Allyn Young, has been founded by Mr. W. J. H. Whittall. The Trustees of the Rockefeller Memorial have renewed for a further period of 4 yrs. their grant of \$20,000 a year for furthering research in the School, and the Sir Ernest Cassel Trustees have renewed, for a further period of 5 yrs., their grant of £800 a year towards the Chair of International Relations.

**NEW BUILDINGS.** The St. Clements Press Corner Building has been adapted and brought into use from the beginning of the session 1929-30. The School has purchased the site of the Holborn Estate Grammar School and the freehold of two contiguous houses opposite its present buildings, an area of over a quarter of an acre. The centre block of a new Athletic Pavilion has been completed and opened.

**NEW POSTS.** Full-time Chairs of Economics and of Imperial Economic Relations; full-time Lecturers in Commerce, Public Administration and English Law. The Sir Ernest Cassel Chair of International Relations has been made a full-time Chair.

RETIREMENTS AND RESIGNATION. Prof. Edward Jenks (English Law), with title of Emeritus Professor in the Univ., and Prof. Noel Baker (International Relations), retired; Mr. C. E. R. Sherrington, Lectr. in Transport, resigned.

DEATHS. Prof. Allyn Young (Polit. Econ.), Prof. L. T. Hobhouse (Sociol.), and Mr. Alan Leslie (Railway Law).

STUDENTS. Total regular students, 985; occasional students, 1415; inter-collegiate students, 408. These figures include 520 graduates.

DEGREES OBTAINED. B.A. (Internal), 4; B.Sc. (Econ.) (Internal), 59, (External), 4; B.Com. (Internal), 40, (External), 7; LL.B. (Internal), 7; M.Sc. (Econ.), 1; M.A., 2; Ph.D., 11; D.Sc. (Econ.), 1; LL.D., 1; D.Lit., 1.

# SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE, KENT

CHAIRMAN OF GOVERNING BODY—CLIFFORD B. EDGAR, D.L., B.Mus., B.Sc.

PRINCIPAL—R. M. WILSON, B.Sc. (Agric.).

SECRETARY AND BURSAR—A. C. LESTER, B.Com., A.C.I.S.

## TEACHING AND RESEARCH AND ADVISORY STAFF

### *Agriculture*

The Principal.

Vickers, V. R. S.

Kersey, H. W.

Fishwick, V. C., P.A.S.I., N.D.A., N.D.D.

Bescoby, H. B., P.A.S.I., N.D.A.

### *Agr. Engineering*

Davies, C., T.D.A.

Smyth, G. R. B.

### *Agr. Law, Forestry, Book-keeping, Surveying, and Building Constn.*

Haines, A. H., P.A.S.I.

Glossop, W. G. V.

### *Agr. Zoology*

Duffield, C. A. W.

### *Botany*

Parkinson, S. T., B.Sc.

Pearl, R. T., B.Sc., A.R.C.S., D.I.C.

Harrison, R. M., B.Sc., A.R.C.S.

### *Chemistry*

Harwood, S. D. F., M.A., F.I.C.

Burgess, A. H., B.Sc. (Agric.).

Cole, L. W., B.Sc. (Agric.).

Prowse, I. B., B.Sc. (Agric.).

Goodwin, W., M.Sc., Ph.D.

### *Economics*

Wyllie, J., B.Sc. (Agric.), N.D.A., N.D.D.

### *Entomology*

Theobald, F. V., M.A.

### *Fruit-growing and Market Gardening*

Miskin, W.

Bird, A. H., M.A.

### *Geology and Zoology*

Brade-Birks, S. G., D.Sc.

### *Ironwork, Farriery, and Woodwork*

Wardley, W.

Martin, A. G.

Head, R. K.

### *Mycology*

Salmon, Prof. E. S., F.L.S.

Ware, W. M., M.Sc.

### *Poultry*

Rhodes, F. W., D.S.O.

Fermor, C. E.

### *Veterinary Science and Bacteriology*

M'Ewen, A. D., M.R.C.V.S.

Barkworth, H., M.C.

## GENERAL INFORMATION

Founded 1894. A School of the Univ. in Science (Agric.).

LIBRARY, 4000 vols. LABORATORIES: Chem. Research, Biol., Bact., Entom., Vet.

The College (Residential) provides courses of instruction in Agriculture (British and Colonial) and Horticulture in preparation for the following examns.: B.Sc. (Agric.), B.Sc. (Hort.), Dip. Agric. (Wye), Dip. Hort. (Wye),

N.D.A. Farms, 550 acres, comprising arable, pasture, orchards, forestry, and hop plantations.

The instruction given meets the needs of young men who intend to take up farming at home and abroad, and who desire to secure posts as managers of estates, lecturers, and organizers in agric. and on the agric. staffs of Colonial Govts. Many responsible and important posts are now held by past students of the Coll., which gives through its Appointments Bureau all possible assistance in placing qualified students in suitable employment. FEES, inclusive for board, lodging, and tuition: British subjects, £150 p.a.; others, £180 p.a. Tuition only—British subjects, £85; others, £115 p.a. Reduced fees for rate-payers of Kent, Surrey, E. Sussex, and W. Sussex. PUBLICATIONS: *Journal*, *Prospectus*. Number of Students (1928-29): full-time, 190; degrees obtained: B.Sc. (Agric.), 11; M.Sc. (Agric.), 1.

## THE YEAR 1928-29

DEVELOPMENTS. Ownership of College farms acquired by purchase.

DEATH. Mr. Thos. W. Cave, Lectr. in Vet. Science since 1902.

## LONDON DAY TRAINING COLLEGE

CHAIRMAN OF COUNCIL—Sir WILLIAM BEVERIDGE, K.C.B., M.A., B.C.L.

PRINCIPAL—Sir T. PERCY NUNN, M.A., D.Sc., Litt.D. (Liv.), LL.D. (St. And.).

### PROFESSORS, LECTURERS, ETC.

The Principal	Prof.	Fairgrieve, J., M.A. Ox., B.A.
Punnett, Margaret, B.A.		von Wyss, Clotilde, F.L.S.
	Vice-Principal.	Calthrop, Miss M. G., Mod. Lang.
Burt, Cyril L., M.A. Ox., D.Sc. Ox.		Tripos.
	Prof.	4 Instrs. in Art and Handwork,
Lecturers and Tutors :		1 in Music, 1 in Voice Production,
Bell, J. J., M.A. Ox. and Liv.		2 in Physical Training.
Browne, C. E., B.Sc. Lond.		8 Supervisors of School
Gurrey, P., B.A., Ph.D. Lond.		Practice.

### GENERAL INFORMATION

Address—Southampton Row, W.C.1.

Founded 1902. The Chancellor and Vice-Chancellor of the Univ. and Chairmen of the L.C.C. and London Educn. Committee are *ex-officio* members of the College Council. A School of the Univ. in Pedagogy.

Schools under the L.C.C. and others are used for practical instruction, and 3 Demonstration Schools are attached to the College.

Students are trained under the Regulations for the Training of Teachers (H.M. Stationery Office, Kingsway, W.C.2) for Elem. and Secondary Schools. Undergraduates can take a 4 yrs.' course so as to combine B.A., B.Sc., or B.Sc.Econ. courses (taken at other Colls.) with Professional training. One who has already graduated may devote himself continuously for a year to Theory, etc., of Educn. and obtain the Univ. diploma. Courses for the M.A. and Ph.D. Degrees in Educn. are also provided. *Fees*: London students—*nil*; others—for a year spent entirely at the Training College for a professional course, £40. PUBLICATION: *Prospectus* (Sept.)

### THE YEAR 1928-29

STUDENTS. Full-time, 205, including 175 graduates. Part-time, 183, all graduates. Taking degree work at Academic Colls., 426.

DEGREES OBTAINED. M.A. (Edn.), 5; Ph.D. (Edn.), 2; Teacher's Diploma, 152.

## SCHOOL OF ORIENTAL STUDIES

PATRON—H.M. THE KING.

VISITOR—THE PRESIDENT OF THE BOARD OF EDUCATION.

CHAIRMAN—SIR HARRY L. STEPHEN, LL.M.

DIRECTOR—PROFESSOR SIR E. DENISON ROSS, C.I.E., Ph.D.

DEAN—C. O. BLAGDEN, M.A., D.Litt.

SECRETARY—MISS C. L. CLEGG.

### PROFESSORS, LECTURERS, ETC.

<i>Albanian</i>	[Lectr.*	<i>Chinese</i>	
Jopson, N. B., B.A. Camb.		Bruce, J. P., M.A., D.Lit.	Prof.
<i>Amharic and Ethiopic</i>		Edwards, E. Dora, M.A.	
Athill, Major L. F. I.		Lectr. (Mandarin).	
Lectr.* (Amh.).		Sung Ho Lin	Asst. (Mandarin).
Weld, H., B.Litt. Ox.	Lectr.*	Steele, J., M.A., D.Lit.	
Harden, Rev. J. M., M.A., D.D.,		Lectr.* (Amoy & Swatow).	
LL.D.	Lectr.* (Eth.).	Waley, A., B.A.	
Hirschfeld, H., Ph.D. Strass.		Lectr.* (C. Poetry).	
Rey, C. F.	Lectr.* (Amh.)	<i>Epigraphy of India and Ceylon</i>	
<i>Arabic</i>		Wickremasinghe, M. de Z., M.A.,	
Arnold, Sir Thos. W., C.I.E., M.A.		D.Lit.	Lectr.
Camb., Litt.D., Ph.D., F.B.A.		<i>Gujarati</i>	
Prof. (Classical A.).		Doderet, W., M.A. Camb., I.C.S.	
Iles, G. E., O.B.E., M.A. Camb.		(retd.)	Lectr.
(Sudanese)	Lectr.	<i>Hausa</i>	[Lectr.
Kader, Sheikh H. Abd el		Tomlinson, G. J. F., C.B.E., M.A.	
Lectr. (Egyptian A.).		Vischer, H.	Lectr.*
Gibb, H. A. R., M.A. Lond. and		<i>Hebrew, Modern</i>	
Edin. Reader (Classical A.).		Wartski, I., B.A.	Lectr.
<i>Arabic Hist. and Lit.</i>		<i>Hindustani</i>	
Fulton, A. S., M.A.		Bailey, T. G., M.A., B.D., D.Litt.	
Lectr.* (Classical A.).		Edin. Reader (Urdu & H.).	
<i>Armenian</i>		Evans, D. E., B.A. (Vict.)	Lectr.
Topalian, S.	Lectr.	Leeson, G. E.	
<i>Assamese and Khasi</i>	[Lectr.*	Lectr. (Urdu & Hindi).	
Gurdon, Lt.-Col. P. R. T., C.S.I.		<i>History and Culture of British</i>	
<i>Bengali</i>		<i>Dominions in Asia, especially</i>	
Page, W. S., O.B.E., B.A., B.D.		<i>India, v. also Sansk.</i>	
St. And.	Reader.	Dodwell, H. H., M.A. Ox.	Prof.
<i>Burmese</i>		Davies, C. C., Ph.D. Camb.	Lectr.
Hertz, W. A., C.S.I.	Lectr.	<i>History of the Near East</i>	
		Toynbee, A. J., B.A.	Lectr.*

\* On panel of additional lectrs., not on regular staff.

<i>Iranian Studies</i>		<i>Phonetics</i>	
Bailey, H. W., M.A. West. Aust., B.A. Ox.		Lloyd-James, A., M.A. Camb., B.A. Wales	Lectr.
<i>Japanese</i>		<i>Polynesian, Melanesian, Micro- nesian, and Papuan</i>	
Isemonger, Commdr. N. E., R.N. (retd.)	Lectr.	Ray, S. H., M.A. Camb.	Lectr.*
Yoshitake, S.	Lectr.	<i>Sanskrit</i> [Prof.]	
Mere, G.	Lectr.*	Turner, R. L., M.C., M.A. Camb.	
Parlett, Sir H., C.M.G.	Lectr.*	Barnett, L. D., M.A. Camb., Litt.D. Vict.	
<i>Law, Indian</i> [Reader.]		Lectr. (S. & Anc. Indian History).	
Sabonadière, A., I.C.S. (retd.)		Stede, W., Ph.D. Leip.	Lectr.
<i>Law, Indian Administrative</i>		Rylands, C. A., B.A. Camb.	Lectr.*
Way, T. A. H.	Lectr.*		
<i>Law, Ottoman</i>		Kanhere, S. G.	Lectr.
Ostrorog, Count Léon, LL.D. Paris	Hon. Lectr.	Allan, J., M.A. Edin.	
		Lectr.* (Oriental Palæog.).	
<i>Malay</i>		<i>Shan</i>	
Blagden, C. O., M.A. Ox., D.Litt. Rangoon	Reader.	Inman, Capt. H. J.	Lectr.*
<i>Malayalam</i>		<i>Siamese</i> [Lectr.*]	
		Wales, H. G. Q., M.A. Camb.	
		<i>Sinhalese</i>	
		Wickremasinghe, M. de Z., M.A. Ox.	
<i>Marathi</i>		<i>Swahili and Bantu Languages</i>	
Kanhere, S. G.	Lectr.	Werner, Alice, D.Lit., L.L.A. St. And.	
<i>Pali</i> [Lectr.]		Werner, Mary	Lectr.
Dauids, Mrs. C. A. R., M.A., D.Lit.		<i>Tamil and Telugu</i> [Lectr.]	
Stede, W., Ph.D. Leip.	Lectr.	Pathy, C. S. K., M.A. Edin.	
<i>Persian</i>		<i>Tibetan</i> [Lectr.*]	
Ross, Sir E. Denison, C.I.E., Ph.D. Strass.	Prof.	Shuttleworth, H. Lee, M.A. Ox.	
Dārāb, G. H., Khan	Lectr.	<i>Turkish</i>	
Haig, Sir Wolseley, K.C.I.E., C.S.I., C.M.G., C.B.E., M.A.		Ali Riza Bey	Lectr.
Dublin	Lectr.	Topalian, S.	Lectr.
Phillott, Lt.-Col. D. C., M.A. Camb.	Lectr.*	<i>Urdu, v. Hindustani</i>	

\* On panel of additional lectrs., not on regular staff.

## GENERAL INFORMATION

Address—Finsbury Circus, E.C.2.

Established by Royal Charter, 1916. A School of the Univ. in Arts.  
Library, 66,900 vols. Fees: 3½ to 20 gs. per session; I.C.S. probationers,  
40 gs. *Scholarship* (Gilchrist) of £50 in Chinese. Teaching provided in more  
than 50 languages and in the history, religions, and customs of Oriental and  
African countries. Special facilities for research work. PUBLICATIONS:  
*Calendar* (July), 1s. 6d.; *Prospectus* (July); *Bulletin*, 6s. per part.

## THE YEAR 1928-29

**BENEFACTIONS.** Endowment by the Parsee Community in Bombay of their Lectureship in Iranian Studies.

**NEW POST.** Lectureship in Iranian Studies ; Lectureship in Indian Hist. ; Readership in Arabic Hist. and Lit. ; Lectureship in Sanskrit.

**RETIREMENTS.** W. Doderet, Lectr. in Marathi ; T. G. F. Palmer, Lectr. in Hindustani.

**STUDENTS.** Full-time, 92 ; part-time, 502.

**DEGREES OBTAINED.** B.A. Hons. 7 ; M.A., 2 ; Ph.D., 5 ; LL.D., 1.

## BEDFORD COLLEGE FOR WOMEN

VISITOR—The Most Hon. the MARQUESS OF CREWE, K.G., G.C.V.O.

CHAIRMAN OF COUNCIL—Sir WILMOT HERRINGHAM, K.C.M.G., C.B., M.D., F.R.C.P.

PRINCIPAL—Miss G. E. M. JEBB, M.A. Camb.

RESIDENT TUTOR—Miss L. C. KEMPSON, M.A. Dub.

SECRETARY—Miss O. E. MONKHOUSE, M.B.E., B.A.

REGISTRAR—Miss E. M. E. HAYDON, M.A.

LIBRARIAN—Miss J. A. PATERSON.

### PROFESSORS, LECTURERS, ETC.

*Botany* [Prof.  
Jones, W. Neilson, M.A. Camb.  
Halket, Miss A. C., B.Sc. Lectr.  
Garside, S., M.Sc. Manc. Lectr.  
1 Demr. (part-time).

*Chemistry, Inorganic and Physical*  
Spencer, J. F., Ph.D. Bres., D.Sc.  
Liv., F.I.C. Prof. (Chem.).  
Hedges, E. S., D.Sc., Ph.D. Manc.  
Jr. Lectr.

2 Demrs.

*Chemistry, Organic*  
Turner, E. E., M.A. Camb., D.Sc.  
Lond. Reader.

2 Demrs.

*Classics* [Prof. (Greek).  
MacGregor, J. M., M.A. Ox.  
Tarrant, Miss D., M.A. Reader.  
Williamson, Harold, M.A. Ox.

Prof. (Latin).  
Furness, Miss S. M. M. Lectr.  
Andrewes, Miss M., M.A. Lond.

Jr. Lectr.

1 Asst. (part-time).

*Dutch*  
Geyl, P., Litt.D. Leyden Prof.  
Haantjes, J., Lit.D. Reader.

*Economics, v. Social Studies*  
*English Language and Mediæval*  
*Lit.*

Thomas, P. G., M.A. Camb.,  
Litt.D. Liv. Prof.

1 Asst. (part-time).

*English Literature*  
Abercrombie, L., M.A. Liv. Prof.  
Routh, H. V., M.A. Camb. Reader.  
Covernton, Miss A. B. Lectr.  
Ellis-Fermor, Miss U. M., M.A.,  
B.Litt. Ox. Lectr.

*French Language and Mediæval*  
*Lit.* [Sr. Lectr.  
Johnson, Miss F. C., M.A.  
Terry, Mrs., M.A. Lectr.

*French Literature*  
Eccles, F. Y., M.A. Ox. Prof.  
Legros, René P., M.A. Edin. and  
Ox. Lectr.

*Geography*  
Hosgood, Miss B., B.A. Reader.  
Daysh, G. H. J., B.Litt. Ox. Lectr.  
Mitchell, Miss J. B., B.A. Camb.  
Jr. Lectr.

2 visiting Lectrs.

*Geology* [Reader.  
Hawkes, L., D.Sc. Durh., F.G.S.  
Gardner, Miss E. W., M.A. Camb.  
Lectr.

1 Demr. part-time.

*German*  
Robertson, J. G., M.A. Glas., Ph.D.  
Leip., Hon. Litt.D. Manc. and  
Dub. Prof.  
Massey, Miss I. M., Ph.D. Marb.  
Reader.

Haltenhoff, A. G. Lectr.

*History, Ancient* [Reader  
Cary, M., M.A., D.Litt. Ox.

*History, Modern*  
Mackie, J. D., M.C., M.A. Ox.  
Prof.  
Haward, Miss W. I., M.A. Camb.  
Lectr.  
Tooley, Miss M. J., M.A. Lectr.  
1 Asst.

*Italian*  
Dobelli, S'rina E. B. Sr. Lectr.  
Jeffery, Miss V. M., D.Lit. Lectr.

*Mathematics* [Prof.  
Hilton, Harold, M.A., D.Sc. Ox.  
Marshall, J., M.A., D.Sc. St. And.  
Reader.  
Fowler, Mrs., M.A. (on leave)  
Lectr. (part-time).  
Jervis, Miss S. D., M.Sc. Jr. Lectr.  
Slade, Miss I. M., B.Sc. Lond.  
Asst.

*Philosophy*  
Edgell, Miss B., D.Litt. Wales,  
Ph.D. Würz. Prof. (Psych.).  
Stebbing, Miss L. S., M.A. Reader.  
Hazlitt, Miss V. H., D.Lit. Lectr.

*Physics*  
Wilson, W., Ph.D. Leip., D.Sc.,  
F.R.S. Prof.  
Saltmarsh, Miss M. O., Math. Trip.  
and Nat. Sci. Trip. Camb.,  
Ph.D. Reader.  
2 Demrs.

*Physiology*  
Edkins, J. S., M.A., M.B., D.Sc.  
Camb. Prof.  
Edkins, Mrs., M.Sc. Lectr.  
Murray, Miss M. M. A., M.Sc.  
Lectr. (Biol. Chem.).

*Social Studies and Economics*  
Reid, Mrs., M.A. Camb. Director.  
The Principal Lectr. (Econ.).  
Williams, Mrs., B.A. Manc.  
Lectr. (Econ.).  
Pinchbeck, Miss I., M.A.  
Lectr. (part-time) (Econ. Hist.).  
5 Visiting Lecturers.

*Zoology*  
Boulenger, C. L., M.A. Camb.,  
D.Sc. Birm. Prof.  
Hett, Miss M. L., B.Sc. Lectr.  
1 Demr.

## GENERAL INFORMATION

Address—Inner Circle, Regent's Park, N.W.1.

Founded 1849. A School of the Univ. in Arts and Science. Tate LIBRARY and Wernher Reading-Room contain 33,925 volumes. Special facilities for Research work in the LABORATORIES (Bact., Bot., Chem., Geol., Physics, Physiol., Psych., and Zool.).

Minimum age for admission, 17. Students are prepared for all examns. of the Univ. of London in Arts and Science. In Medicine the College is recognized by the Univ. for purposes of the First M.B., and in Chem. and Physiol. for the Second M.B. Examn.

RESIDENTIAL accommodation for 94 students in the Coll. and 150 at the College Houses. FEES (Inclusive Sessional), for tuition: Interm. Arts—42 gs.; B.A.—31 to 38 gs.; M.A.—8½ to 15 gs.; Interm. Science and B.Sc. Pass—53 gs.; B.Sc. Hons.—38 to 53 gs.; M.Sc. and Ph.D.—15 to 21 gs. Residence with board—76 to 100 gs. Union Society—15s.; Athletic Union—25s.

SCHOLARSHIPS for graduates: One (Lady Huggins) in Sociology, awarded from time to time; one (Amy Lady Tate) for research in Arts or Science, £125 p.a. for 2 yrs.; "F.M.W." Medical, £50; Gilchrist, £30 for 1 yr.; Notcutt Travelling Studentship, £200 for session 1931-32.

PUBLICATIONS: *Calendar*, post free, 3s. 6d.; B.C. Magazine (Students),

## THE YEAR 1928-29

BENEFACTIONS. Sir William Beveridge and his father and sister, a scholarship of £50 p.a. in memory of Mrs. Beveridge (Annette Akroyd), student, 1860-1863.

One new Readership : Greek.

RETIREMENTS AND RESIGNATIONS. The Principal, Miss M. J. Tuke, as from Dec. 31, 1929 ; Prof. Spurgeon, with title of Emeritus Professor in the Univ. ; Dr. J. A. H. Brincker ; Miss G. Faulkner ; Dr. R. N. Kerr ; Miss M. T. Williamson. LEAVE OF ABSENCE : Miss W. I. Haward, exchange post at Canterbury Coll., Christchurch, N.Z.

STUDENTS. Full-time, 614, including 39 graduates. Part-time, 35, including 18 graduates.

DEGREES OBTAINED. B.A., 112 ; M.A., 2 ; Ph.D., 3 ; B.Sc., 57 ; M.Sc., 3 ; D.Sc., 1.

# ROYAL HOLLOWAY COLLEGE FOR WOMEN

CHAIRMAN OF THE GOVERNORS—The Right Hon. BARON ASKWITH,  
K.C.B., D.C.L.

PRINCIPAL—Miss E. C. HIGGINS, B.A.

SECRETARY TO THE GOVERNORS—Miss U. R. DOLLING.

PRINCIPAL'S ASSISTANT AND LIBRARIAN—Miss E. E. LOOKER, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Botany</i> [Sr. Lectr.		<i>German</i>	
Blackwell, Miss E. M., M.Sc. Liv.		Delp, Miss W. E., Doct. de l'Univ.	
Chattaway, Miss M. M., M.A., B.Sc.		Paris	Sr. Lectr.
Ox.	Asst. Lectr. & Demr.	Richey, Miss M. F., M.A., D.Lit.	
<i>Chemistry</i>			Asst. Lectr.
Moore, T. S., M.A. Ox.	Prof.	<i>History</i> [Prof.	
Boyle, Miss M., D.Sc.		Johnstone, Miss Hilda, M.A. Manc.	
	Lectr. & Demr.	Powell, Miss I. G., M.A.	Lectr.
Wilson-Smith, Miss M. J., B.Sc.		James, Miss M., M.A. Camb., Ph.D.	
	Demr. & Asst. Lectr.		Asst. Lectr.
<i>Classics</i>		<i>Mathematics</i> [Prof.	
Sleeman, J. H., M.A.	Prof.	Baker, B. B., D.Sc. Edin., M.A.	
Taylor, Miss M. E. J., M.A. Dub.		Rowell, Miss E. M.	Sr. Lectr.
	Sr. Lectr.	Pick, Miss M., M.A.	Lectr.
Woodward, Miss A., M.A.		The Principal	Lectr.
	Asst. Lectr.	<i>Physics</i>	
<i>English</i> [Sr. Lectr.		Horton, F., Sc.D. Camb., M.Sc.	
Willcock, Miss G. D., M.A.		Birm., D.Sc., F.R.S.	Prof.
Green, Miss H. A., M.A.	Lectr.	Smith, C. J., Ph.D.	
Walker, Miss A., Ph.D.			Lectr. & Demr.
	Asst. Lectr.	Bate, Miss P. H., B.Sc.	
<i>French</i> [Sr. Lectr.			Asst. Demr.
Honey, Miss M. E. D., M.A.		<i>Art</i>	
McWilliam, Miss N., M.A. Edin.		<i>Drawing and Painting</i>	
	Lectr.	Carey, C. W.	Teacher.
West, Miss C. B., B.A., M.Litt.		<i>Music</i> [Lectr. & Director.	
Camb.	Lectr.	Barker, Miss S. M.	
Augé, Mlle. S. (Conversation)		3 Visiting Teachers.	
	Assistante.		

## GENERAL INFORMATION

Address—Englefield Green, Surrey.

Opened in 1886. 19 miles from London. A School of the Univ. in Arts and Sci. LIBRARY, 19,500 vols. LABS.: Bot., Chem., Physics: Botanic Gardens. Area, 95 acres. Residential accommodation for over 200 students and staff. Courses for first and higher degrees in Arts and Sci. Incl. FEES: £144 a yr. Entrance Schps., £80, etc.; post-graduate studentships. PUBLICATIONS: *Calendar*, 2s. post free; R.H.C. *Letter* (Old Students' Assn.).

## THE YEAR 1928-29

RESIGNATION. Dr. A. C. Davies on appointment at Newnham Coll.

STUDENTS. Full-time: total, 212, including 10 graduates.

DEGREES OBTAINED. B.A., 39; B.Sc., 26; Ph.D., 1; M.A., 3; M.Sc., 2.

WESTFIELD COLLEGE, HAMPSTEAD

CHAIRMAN OF COUNCIL—Sir THOMAS INSKIP, C.B.E., K.C.

PRINCIPAL—Miss E. C. LODGE, M.A., D.Litt. Ox., F.R.Hist.S.

## LECTURERS

*Botany* [Reader.

Delf, Miss E. M., D.Sc., F.L.S.

Fry, Miss E. J., M.Sc. Wales

Westbrook, Miss M. A., M.Sc.

Demr.

Chemistry [Part-time Lectr.

McKie, Miss P. V., Ph.D., D.Sc.

### Classics

Parker, Miss C. E., M.A. Ox.

Dyson, G. W., B.A. Camb.

Botting, C. G., M.A. Camb. (part-time).

*English Lang. and Lit.*

Davis, B. E. C., M.A. Ox. Reader.

Serjeantson, Miss M. S., M.A.,  
D.Phil.

Lea, Miss K. M., M.A. Ox.

*French* [Reader.

Turquet, Mme., M.A., D.Lit.

Crosland, Mrs., M.A. (part-time).

Turquet, A. (part-time).

## Geography

Fleure, H. J., D.Sc.

33.

## History

Levett, A. E., M.A. Ox. Prof.  
M. A. M. B. C. M. A. B. D.

Martin, Miss E. C., M.A., Ph.D.

Thornton, Miss G. A., Ph.D.

Asst. Lectr.

Mathematics, Pure and Applied

Whitby, Miss L. J., B.A.  
Palmer, Mrs., M.A. (part-time).

## GENERAL INFORMATION

Address—Kidderpore Avenue, Finchley Rd., N.W. 3.

Founded in 1882 by Miss Dudin Brown, the college is undenominational, but the Principal must be a member of the Church of England. Near the S.W. corner of Hampstead Heath; residential accomm. for 114 students. A School of the Univ. in Arts.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons. and Pass) in the Fac. of Sci. in Bot. and Maths. are provided, as well as in Arts. Two Research Studentships are offered each year to graduates of any Univ. *Fees*: tuition from 38 to 53 gs., residence £90 per session. There is an Old Students' Assocn. *Publications*: *Prospectus* (July); *Report* (October); *Hermes* (Students' Mag.).

## THE YEAR 1928-29

**BUILDINGS.** A chapel costing £5000, from old Students.

**NEW DEPARTMENTS.** A Chemical Laboratory has been equipped for Interm. Chem. and Subsidiary Biochem., and Miss P. V. McKie, Ph.D., D.Sc., has been appointed full-time Lectr. and Hd. of Dept.

RETIREMENT. Prof. Skeel, D.Lit.

**STUDENTS.** Full-time : total, 146, including 6 graduates.

DEGREES OBTAINED. Ph.D., 1; M.A., 1; M.Sc., 2; B.A. Honours, 39; B.Sc. Honours, 5.

# KING'S COLLEGE OF HOUSEHOLD AND SOCIAL SCIENCE

WARDEN—Miss HELENE REYNARD, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>	[Reader.	Craig, Marjorie	Asst. Lectr.
Esdaile, Philippa C., D.Sc.			
Crofts, Doris, M.Sc.	Lectr.	<i>Hygiene and Bacteriology</i>	
<i>Chemistry</i>		Proctor, Ruth, M.A., M.B.,	
Tinkler, C. Kenneth, D.Sc.	Prof.	Ch.B., D.P.H.	Lectr.
Jackman, Agnes, B.Sc.	Lectr.	Dukes, C. E., O.B.E., M.D. Edin.,	
Paterson, M. Joyce, M.A.	Lectr.	M.Sc., D.P.H.	Lectr.
<i>Economics and Business Affairs</i>		<i>Physiology</i>	
Reynard, Helene, M.A.	Lectr.	Mottram, V. H., M.A.	Prof.
Stanners, Harold, B.Sc. (Econ.)		Hartwell, Gladys, D.Sc.	Lectr.
	Lectr.	Clifford, Winifred M., M.Sc.	
<i>Household Work</i>			Asst. Lectr.
Lindsay, Jessie	Lectr.	<i>Physics</i>	
Wood, Edith	Lectr.	Dillon, Teresa J., M.Sc.	Lectr.
Tress, Helen	Lectr.	Andrewes, U., Ph.D.	Demr.

## GENERAL INFORMATION

Address—Campden Hill Road, W.8.

Formerly a dept. of King's Coll. for Women ; since 1928 an independent School of the Univ. Residential accommodation (Queen Mary's Hostel) for 110 students.

Full degree courses for B.Sc. in Household and Social Science. *Fees*: For tuition, 45 gs., residence, 75 to 93 gs. per session.

*Publication*: *Students' Magazine*.

## THE YEAR 1928-29

**BUILDINGS.** New wing in course of erection.

**STUDENTS.** Full-time, 175.

**DEGREES OBTAINED.** B.Sc., H. and Soc. Sc., 17.

# THEOLOGICAL SCHOOLS OF THE UNIVERSITY

## RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated by symbols thus :

HACKNEY AND NEW COLLEGE, HAMPSTEAD (N.).	WESLEYAN COLLEGE, RICHMOND (WR.).
KING'S COLLEGE THEOLOGICAL DEPT. (KT.).	ST. JOHN'S HALL, Highbury (J.).
<i>Theology</i> [(KT.).	Jenkins, C., M.A. Ox., F.S.A. (KT.).
Bicknell, E. J., M.A., D.D. Ox.	Matthews, W. R., M.A., D.D. (KT.).
Box, G. H.	Oesterley, W. D. E., D.D., M.A. (KT.).
Clogg, F. B., M.A. Camb., B.D. (WR.).	Relton, H. M., D.D. (KT.).
Davies, W. A., M.A. Ox. and Wales, B.D. (N.).	Robinson, H. W., D.D. Edin., M.A. Ox. and Edin. (N.).
Dearmer, P., D.D. Ox. (KT.).	Rogers, C. F., M.A. Ox. (KT.).
Farrer, A. J. D., B.A. (N.).	Smith, C. R., B.A., D.D. (WR.).
Garvie, A. E., M.A. Glas. and Ox., D.D. Glas. (N.).	Smith, F. H., B.D. (KT.).
Gilbert, T. W., D.D. Ox. (J.).	Smith, H., M.A. Camb. (J.).
Gore, Rt. Rev. C., D.D., D.C.L. Ox., D.D. Edin. and Durh., LL.D. Camb. and Birm. (KT.).	Tasker, R. V. G., M.A. Camb. (KT.).
Hanson, H., M.A. Ox., B.D. (KT.).	Waterhouse, E. S., M.A., D.D. (WR.).
Irwin, O. A. C., M.A., B.D. (J.).	

## GENERAL INFORMATION

HACKNEY AND NEW COLLEGE, HAMPSTEAD (Congregational), Finchley Road, N.W.3. Principal—A. E. Garvie, M.A., D.D. Secretaries—Rev. H. Staines, M.A., B.D., and Rev. T. R. Grantham.

New College, founded in 1696 and reconstituted in 1850, and Hackney College, founded in 1803, were merged into one institution in 1924. *Library*, 75,000 vols. Sessional fee, 6 gs. for each class. "Internal" students—28.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, W.C.2. Dean—Rev. W. R. Matthews, M.A., D.D. Secy.—S. T. Shovelton, M.A. Founded 1829 (v. King's Coll.). Complete courses for all Theol. degrees. Day and Evg. Classes. *Fees*: for tuition, undergraduate courses, £32 per session; evening classes, 5 gs. per term. *Hostel* for students: fee for residence, £22 per term. Full-time students, 180; internal students of the University, 56. The College grants A.K.C. Diploma in Theology.

WESLEYAN COLLEGE, RICHMOND, Surrey. Principal—Rev. C.

R. Smith, B.A., D.D. Secy. of Committee—Rev. Prebendary L. F. Church, B.A.

Opened 1843. All students are accepted candidates for Ministry of Wesleyan Methodist Church. Residential accommodation for 60. "Internal" students—13.

ST. JOHN'S HALL, Highbury, London, N.5 (Church of England). Principal—Rev. T. W. Gilbert, D.D. Hon. Secy. of Council—Rev. Prebendary H. W. Hinde, M.A.

Founded and endowed 1863 by Dr. A. Peache, Chancellor of the Western Univ. of Canada. Courses for L.Th. Durham as well as for B.D. of London. *Fees*: Entrance, 2 gs.; board and tuition, £93. Residential accommodation for 70 students.

# MEDICAL SCHOOLS OF THE UNIVERSITY

## RECOGNIZED TEACHERS

*Note.*—In the following list the names of the Medical and other Schools are indicated by letters thus :

ROYAL ARMY MED. COLLEGE (AM).	LISTER INSTITUTE (LI).
ST. BART.'S HOSP. MED. COLL. (B).	LONDON (R.F.H.) SCH. OF MED.
BETHLEM ROYAL HOSPL. (Bm).	FOR WOMEN (LW).
CANCER HOSPL. (Can.).	MIDDLESEX HOSPL. MED. SCH. (M).
CHARING CROSS HOSPL. MED. SCH. (C).	MAUDSLEY HOSPL. (My.).
ROYAL DENTAL HOSPL. AND LOND.	NAVAL MED. SCH., GREENWICH (NM).
SCH. OF DENT. SURG. (D).	SCH. OF PHARMACY (P).
GUY'S HOSPL. MED. SCH. (G).	ST. GEORGE'S HOSPL. MED. SCH. (SG).
LONDON SCHOOL OF HYGIENE	ST. MARY'S HOSPL. MED. SCH. (SM).
AND TROPICAL MEDICINE (H).	ST. THOMAS'S HOSPL. MED. SCH. (T).
KING'S COLL. HOSPL. MED. SCH.	UNIV. COLL. HOSPL. MED. SCH. (UM).
(KM).	WESTMINSTER HOSPL. MED. SCH. (W).
LONDON HOSPL. MED. COLL. (L).	

and names of certain institutions having recognized teachers thus :

BROMPTON HOSPL. FOR CONSUMPTION (BH).	ROYAL LONDON OPHTHALMIC HOSPL. (Oph.).
HOSPL. FOR SICK CHILDREN (Sch.).	NATIONAL INSTITUTE FOR MEDICAL RESEARCH (MR).
NATIONAL HOSPL. FOR DISEASES OF THE NERVOUS SYSTEM (NH)	

### *Anæsthetics*

Boyle, H. E. G., M.R.C.S.,  
L.R.C.P. (B.).  
Chaldecott, J. H., L.R.C.P. (SM.).  
Charles, H., L.R.C.P., M.R.C.S.  
(M.).

Daly, A. S., L.R.C.P., M.R.C.S. ,,  
Gandy, E. W., O.B.E., B.A. Camb.,  
L.R.C.P., M.R.C.S. (W).  
Hughes, C. H. M., O.B.E., M.B.,  
B.S., L.R.C.P., M.R.C.S.  
(KM.).

Mennell, Z., M.B., L.R.C.P.,  
M.R.C.S. (T.).  
Playfair, E., M.B., M.R.C.P.,  
M.R.C.S. (KM.).  
Richards, H. A., M.A. Camb.  
(KM.).

Shipway, Sir F. E., K.C.V.O.,  
M.A., M.D., B.Ch. Camb. (G.).  
Shirley, H. J., C.M.G., M.D.,  
F.R.C.S. (UM.).  
Sprott, Barbara, M.B., B.S.  
(LW.).

### *Anatomy*

Clark, W. E. Le G., F.R.C.S.  
Prof. (T.).  
Frazer, J. E. S., F.R.C.S.  
Prof. (SM.).  
Johnston, T. B., M.B., Ch.B. Edin.  
Prof. (G.).  
Keene, Mrs. M. F. L., M.B., B.S.,  
Prof. (LW.).  
Mitchiner, P. H., M.D., M.S.,  
L.R.C.P., F.R.C.S. (T.).

(AM), (B), etc., v. *Note* above.

Wright, W., D.Sc. Bir., M.B., Ch.B.  
Manc., F.R.C.S. Prof. (L.).  
Yeates, T., M.B., C.M. Edin., B.Hy.,  
D.P.H. Durh. Prof. (M.).

*Bacteriology*, v. also Path.

Bamforth, J., M.D., Ch.B., D.P.H.  
Liv., M.R.C.P., M.R.C.S. (T.).  
Bulloch, W., M.D., C.M., LL.D.  
Aberd., F.R.S. (recogd. in  
Path.) Goldsmiths' Prof. (L.).  
Canti, R. G., M.A., M.D. Camb.,  
L.R.C.P., M.R.C.S. (B.).  
Douglas, S. R., F.R.S., L.R.C.P.,  
M.R.C.S. (MR.).  
Dudgeon, L. S., C.M.G., C.B.E.,  
F.R.C.P. (T.).  
Dukes, C. E., O.B.E., M.D. Edin.,  
M.Sc., D.P.H. (KM.).  
Duncan, J. T. (H.).  
Eyre, J. W. H., M.D., M.S. Durh.,  
D.P.H. Camb. Prof. (G.).  
Fleming, A., M.B., F.R.C.S. (SM.).  
Freeman, J., M.A., D.M., B.Ch.  
Ox. (SM.).  
Goadby, Sir Kenneth W., K.B.E.,  
L.R.C.P., M.R.C.S., L.D.S.,  
D.P.H. Camb. (UM.).  
Hunt, E. L., D.P.H. Camb., M.B.,  
B.S., L.R.C.P., M.R.C.S. (also  
in Path.) (SG.).  
Ledingham, J. C. G., C.M.G.,  
M.A., M.B., Ch.B., D.Sc.  
Aberd., F.R.S. Prof. (LI.).  
Nabarro, D. N., B.Sc., M.D.,  
D.P.H., F.R.C.P. (S.Ch.).  
Petrie, G. F., M.D., Ch.B. Aberd.  
(LI.).  
Roshier, A. B., L.R.C.P., M.R.C.S.,  
D.P.H. (C.).  
Ross, Joan M., M.B., B.S.,  
M.R.C.P., M.R.C.S. (LW.).  
Steadman, F. St. G., L.R.C.P.,  
M.R.C.S., L.D.S., D.P.H. (D.).  
Topley, W. W. C., M.A., M.D., B.Ch.  
Camb., F.R.C.P., M.R.C.S.  
Prof. (H.).

Wilson, G. S., M.D., B.S.,  
M.R.C.P., M.R.C.S., D.P.H.  
Reader (H.).  
Wright, Sir A. E., K.B.E., C.B.  
Prof. (SM.).  
Wright, H. D., B.A. Tasmania,  
M.D., Ch.B., D.Sc. Edin.  
Reader (UM.).

*Bio-Chemistry*, v. also Chem.  
Path.

Dodds, E. C., M.V.O., M.D., B.S.,  
B.Sc., M.R.C.S. Prof. (M.).  
Harden, A., D.Sc. Manc., Ph.D.  
Erl., F.R.S. Prof. (LI.).  
McLean, Ida S., D.Sc. (LI.).  
Raistrick, H., B.A. Camb., D.Sc.  
Leeds Prof. (H.).  
Reeves, H. G., D.Sc., M.Sc., Ph.D.  
Birm. (B.).  
Robison, R., Ph.D. Leip., D.Sc.  
(LI.).  
Ryffel, J. H., M.A., B.Ch. Camb.,  
B.Sc., F.I.C. (recogd. in  
Forensic Med.) Reader (G.).  
Zilva, S. S. (LI.).

*Biology*

Cunnington, W. A., M.D. (B.).  
\*Evans, T. J., M.A. Ox. (G., 9).  
Leigh-Sharpe, W. H., B.Sc. (SM.).  
Mudge, G. P., A.R.C.S. (L., LW.).  
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*Chemistry*

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Lowndes, J., F.I.C. (T.).  
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*Dental Science, v. infra*

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 D.Sc., M.B., B.S., F.R.C.S.,  
 F.R.S. (UM., Oph.).  
 Paton, L. J., M.B., B.Ch., B.A.  
 Camb., F.R.C.S. (SM., NH.).  
 Scott, R. S., M.A., M.B., B.Ch.  
 Camb., L.R.C.P., F.R.C.S.  
 (B.).  
 Whiting, M. H., M.A., M.B. Camb.,  
 F.R.C.S. (M.).  
 Williamson-Noble, F. A., B.A.,  
 M.B., B.Chir. Camb., F.R.C.S.  
 (SM.).  
*Pathology and Anat.—Morb., v.*  
*also Chem., Bact.*  
 Baker, S. L., L.R.C.P., M.R.C.S.,  
 D.P.H. Reader (M.).  
 Boycott, A. E., M.A., B.Sc., B.Ch.,  
 D.M. Ox., F.R.S.  
 Graham Prof. (UM.).  
 Creed, E. ff., M.A., B.M., B.Ch.,  
 D.P.H. Ox. (KM.).  
 Donaldson, R., M.A., M.D., D.T.M.  
 Edin., D.P.H., F.R.C.S.  
 Prof. (G.).  
 Dudgeon, L. S., C.M.G., C.B.E.,  
 F.R.C.P. (also in Bact.)  
 Prof. (T.).  
 Goodhart, G. W., M.D. (UM.).  
 Hadfield, G., M.D., B.S.  
 Prof. (LW.).  
 Hicks, J. A. B., M.D., B.S., D.P.H.  
 Reader (W.).  
 Hunt, E. L., D.P.H. Camb., M.B.,  
 B.S., L.R.C.P., M.R.C.S.  
 (SG.).  
 Kettle, E. H., M.D., B.S. Prof. (B.).  
 Lakin, C. E., M.D., B.S., F.R.C.P.,  
 F.R.C.S. (also in Med.) (M.).  
 Livingston, A., M.B., Ch.B.,  
 M.D.S. Liv. (KM.).  
 McIntosh, J., M.D., Ch.B. Aberd.  
 Prof. (M.).  
 Newcomb, W. B., M.A., M.B.,  
 B.Chir. Camb., L.R.C.P.,  
 M.R.C.S. (SM.).  
 Nicholson, G. W. de P., M.A., M.D.  
 Prof. (G.).  
 Rosher, A. B., L.R.C.P., M.R.C.S.,  
 D.P.H. (C.).  
 Ross, Joan M., M.B., B.S.,  
 M.R.C.P., M.R.C.S. (LW.).  
 Teale, F. H., M.D., B.Sc., F.R.C.P.  
 (UM.).  
 Turnbull, H. M., M.A., B.Ch.,  
 D.M. Ox. Prof. (L.).  
 Vines, H. W. C., M.A., M.D., B.Ch.  
 Camb. (C.).  
 Warwick, W. T., M.A., M.B.  
 Camb., F.R.C.S. (M.).  
 Woods, W. W., L.R.C.P., M.R.C.S.  
 (Morbid Histol.) (L.).  
*Pathology, Chemical*  
 Harrison, G. A., B.A., M.D., B.Ch.  
 Camb., L.R.C.P., M.R.C.S.  
 Reader (B.).  
 Lawrence, R. D., M.A., M.D., Ch.B.  
 Aberd. (KM.).  
*Pathology, Experimental*  
 Chick, Harriette, M.D. (L.).  
 Douglas, S. R., F.R.S. (and  
*Bacteriology*) (MR.).  
 Leitch, A., M.D., Ch.B.  
 Prof. (Can.).  
 Martin, Sir Charles J., C.M.G.,  
 D.Sc. Sheff., D.Sc., M.B.,  
 F.R.S. Prof. (LI.).  
 Wright, Sir Almroth E., K.B.E.,  
 C.B., M.D., B.Ch., Sc.D.  
 Dub., B.A. Camb., F.R.S.  
 Prof. (SM.).  
*Pharmacognosy*  
 Wallis, T. E., B.Sc. Reader (P.).  
*Pharmacology, v. also Med.*  
 Dale, H. H., C.B.E., M.A., M.D.,  
 B.Ch. Camb., D.Sc. Sheff.,  
 F.R.C.P., F.R.S. (MR.).  
 Greenish, H. G., F.I.C., F.L.S.,  
 Doc. Univ. Paris Prof. (P.).  
 Hamill, P., M.A., M.D. Camb.,  
 D.Sc., F.R.C.P. (B.).

- Linnell, W. H., M.Sc., Ph.D. (Durh. Reader (P.)).  
 Mutch, N., M.A., M.D., B.Ch. Camb., F.R.C.P., M.R.C.S. (G.).  
 Scarborough, Eleanor M. Reader (LW.).  
 Woolley, V. J., M.A., M.D. Camb. (T.).
- Physics*  
 Brinkworth, J. H., M.Sc. (T.).  
 Hopwood, F. L., D.Sc. Prof. (B.).  
 Russ, S., D.Sc. Joel Prof. (M.).  
 Stead, G., M.A. Camb. Reader (G.).  
 White, W. H., M.A. Camb., B.Sc., A.R.C.S. (SM.).
- Physiology*  
 Bond, Muriel, M.Sc. (LW.).  
 Collingwood, B. J., B.A., M.D., B.Ch. Camb. Prof. (SM.).  
 Cullis, Winifred C., C.B.E., D.Sc. Prof. (LW.).  
 Dale, H. H., C.B.E., M.A., M.D. Camb., F.R.S. (and *Pharmacology*) (MR.).  
 Hartridge, H., M.A., M.D., B.Ch., Sc.D. Camb., F.R.S. Prof. (B.).  
 Hewer, E. E., D.Sc. (*Histology*) (LW.).  
 Hill, L. E., M.B., F.R.C.S. (MR.).  
 Huggett, A. S. J. M., Ph.D., M.B., B.S., B.Sc., L.R.C.P., M.R.C.S. (T.).  
 Mellanby, J., M.A., M.D. Camb., F.R.S. Prof. (T.).  
 Pembrey, M. S., M.A., D.M., B.Ch. Ox., F.R.S. Prof. (G.).  
 Roaf, H. E., M.D. Tor., D.Sc. Liv. Prof. (L.).  
 Smart, W. A. M., B.Sc., M.B., B.S. (L.).
- \*Symes, W. L., M.R.C.S. (T., 9).  
 Vincent, S., D.Sc. Edin., M.D., L.R.C.P., M.R.C.S. Prof. (M.).
- Wright, S., M.D., M.R.C.P., M.R.C.S. (M.).
- Protozoology* [(H.).  
 Robertson, A., M.B., Ch.B. Edin.  
 Thomson, J. G., M.A., M.B., Ch.B. Edin. Reader (H.).  
 Woodcock, H. M., D.Sc. (LI.).
- Radiology*  
 Colwell, H. A., M.B., D.P.H. Ox. (KM.).  
 Finzi, N. S., M.B., L.R.C.P., M.R.C.S. (B.).  
 Reynolds, R. J., D.M.R.E. Camb., M.B., B.S., L.R.C.P., M.R.C.S. (C.).  
 Salmond, R. W. A., M.D., Ch.M. Aberd., D.P.H., D.M.R.E. (UM.).  
 Webster, J. H. D., M.D., Ch.B. Edin. (M.).
- Surg.*, v. also Dis. of Child.  
 Addison, O. L., M.B., B.S., F.R.C.S. (Sch.).  
 Armour, D. J., C.M.G., M.B., B.A. Tor., F.R.C.S. (NH.).  
 Back, I., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).  
 Ball, W. G., F.R.C.S. (B.).  
 Bankart, A. S. B., M.A., M.Ch. Camb., F.R.C.S. (Orthopaedics) (M.).  
 Bromley, L., M.B., M.Ch. Camb., F.R.C.S. (G.).  
 Bryan, C. W. G., F.R.C.S. (SM.).  
 Buxton, N. St. J. G. D., M.B., B.S. Lond., F.R.C.S. (KM.).  
 Cade, S., L.R.C.P., F.R.C.S. (W.).  
 Cairns, H. W. B., M.B., B.S. Adel., F.R.C.S. (L.).  
 Carling, E. R., M.B., B.S., F.R.C.S. (W.).  
 Cheatle, Sir George L., K.C.B., C.V.O., F.R.C.S. (KM.).  
 Choyce, C. C., C.M.G., C.B.E., B.Sc., M.D. Edin., F.R.C.S. (UM.).

- Clogg, H. S., M.S., M.B., F.R.C.S. (C.).  
 Colquhoun, G. R. E., L.R.C.P., F.R.C.S. (SG.).  
 Cope, V. Z., M.A., M.D., M.S., F.R.C.S. (SM.).  
 Cunning, J., M.B., B.S. Melb., F.R.C.S. (LW.).  
 Daniel, P. L., F.R.C.S. (C.).  
 Davies-Colley, R., C.M.G., M.A., M.Ch. Camb., F.R.C.S. (G.).  
 Dunhill, T. P., C.M.G., M.D., B.S. Melb. (B.).  
 Edmunds, A., M.S., B.Sc. (KM.).  
 Edwards, A. T., M.A., M.Ch. Camb., F.R.C.S. (W.).  
 Edwards, H. C., M.B., B.S., F.R.C.S. (KM.).  
 Elmslie, R. C., M.B., B.S., F.R.C.S. (B.).  
 English, Sir Thos. C., K.C.M.G., M.B., B.S., F.R.C.S. (SG.).  
 Evans, A. H., O.B.E., M.D., M.S., F.R.C.S. (W.).  
 Everidge, J., O.B.E., F.R.C.S. (KM.).  
 Ewart, G. A., B.A. Camb., F.R.C.S. (SG.).  
 Fagge, C. H., M.S., M.B., F.R.C.S. (G.).  
 Fairbank, H. A. T., D.S.O., O.B.E., M.B., M.S., L.R.C.P., F.R.C.S., L.D.S. (KM.).  
 Fedden, W. F., M.S., M.B., F.R.C.S. (SG.).  
 Fitzwilliams, D. C. L., C.M.G., M.D., Ch.M. Edin., F.R.C.S. (SM.).  
 Frankau, C. H. S., C.B.E., M.B., B.S., F.R.C.S. (SG.).  
 Gask, G. E., C.M.G., F.R.C.S. Prof. (B.).  
 Gordon-Taylor, G., M.A. Aberd., M.S., B.Sc., F.R.C.S. (M.).  
 Gordon-Watson, Sir Charles, K.B.E., C.M.G., F.R.C.S. (B.).  
 Gould, E. L. P., M.A., M.Ch., D.M. Ox. (M.).  
 Gray, H. T., M.A., M.Ch. Camb., L.R.C.P., F.R.C.S. (Sch.).  
 Handfield-Jones, R. M., M.B., M.S., F.R.C.S. (SM.).  
 Handley, W. S., M.D., M.S., F.R.C.S. (M.).  
 Howard, R. J., C.B.E., M.S., M.B., F.R.C.S. (L.).  
 Hudson, V. R., F.R.C.S. (M.).  
 Hughes, E. C., M.A., M.Ch. Camb., F.R.C.S. (G.).  
 Hunter, J. B., M.A., M.Ch. Camb., F.R.C.S. (KM.).  
 Joll, C. A., M.B., B.Ch. Brist., M.B., M.S., B.Sc. (LW.).  
 Keynes, G. L., M.A., M.D. Camb., F.R.C.S. (B.).  
 Legg, T. P., C.M.G., M.S., M.B., F.R.C.S. (KM.).  
 Lett, H., C.B.E., M.B., Ch.B. Manc., F.R.C.S. (L.).  
 Lewis, Emily C., M.S., M.B., L.R.C.P., F.R.C.S. (LW.).  
 Lindsay, E. C., B.Sc. N.Z., M.B., B.S., F.R.C.S. (L.).  
 Low, V. W., C.B., M.D., B.S., F.R.C.S. (SM.).  
 Martin, E. K., M.B., Ch.B. (UM.).  
 Maybury, B. C., M.B., B.S., F.R.C.S. (T.).  
 Milne, R., M.D., M.S., F.R.C.S. (L.).  
 Mitchiner, P. H., M.B., M.S., L.R.C.P., F.R.C.S. (T.).  
 Mullally, G. T., M.S. (W.).  
 Neligan, G. E., M.B., B.Ch. Ox., F.R.C.S. (L.).  
 Nitch, C. A. R., M.B., M.S., F.R.C.S. (T.).  
 Norbury, L. E. C., O.B.E., M.B., B.S., L.R.C.P., F.R.C.S. (LW.).  
 Ogilvie, W. H., M.A., M.D., M.Ch. Ox., F.R.C.S. (LW.).  
 Page, C. M., M.S., F.R.C.S. (T.).  
 Pannett, C. A., M.D., B.S., B.Sc., F.R.C.S. Prof. (SM.).

- Perrin, W. S., M.B., M.Ch. Camb., F.R.C.S. (L.).
- Perry, A. C., M.B., M.S., F.R.C.S. (L.).
- Rawling, L. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
- Roberts, J. E. H., O.B.E., M.B., B.S., Ph.D., F.R.C.S. (B.).
- Romanis, W. H. C., M.A., M.B., M.Ch. Camb., L.R.C.P., F.R.C.S. (T.).
- Rowlands, R. P., O.B.E., M.B., M.S., F.R.C.S. (G.).
- Sargent, P. W. G., C.M.G., M.A., M.B., B.Ch. Camb., F.R.C.S. (T., NH.).
- Shattock, C. E., M.D., M.S., F.R.C.S. (LW.).
- Slesinger, E. G., O.B.E., B.Sc., M.S., F.R.C.S. (G.).
- Souttar, H. S., C.B.E., M.A., B.M., M.Ch. Ox., F.R.C.S. (L.).
- Spencer, W. G., O.B.E., M.B., M.S., F.R.C.S. (W.).
- Steward, F. J., M.S., M.B., F.R.C.S. (G.).
- Taylor, J., M.S., F.R.C.S. (UM.).
- Thompson, A. R., M.B., Ch.M. Manc., F.R.C.S. (G.).
- Thomson - Walker, Sir J. W., O.B.E., M.B., C.M. Edin., F.R.C.S. (KM.).
- Trethowan, W. H., M.B., B.S. Lond., F.R.C.S. (G.).
- Trotter, W. B. L., M.D., M.S., F.R.C.S. (UM.).
- Turner, P., M.S., M.B., B.Sc., F.R.C.S. (G.).
- Turner, W., M.S., M.B., F.R.C.S. (W.).
- Verrall, P. J., B.A., M.B., B.Ch. Camb., F.R.C.S. (LW.).
- Vick, R. M., O.B.E., M.A., M.Ch. Camb., L.R.C.P., F.R.C.S. (B.).
- Wakeley, C. P. G., F.R.C.S. (KM.).
- Wallace, Sir Cuthbert S., K.C.M.G., C.B., M.B., F.R.C.S. (T.).
- Walton, A. J., B.Sc., M.B., M.S., L.R.C.P., F.R.C.S. (L.).
- Waring, Sir Holburt J., C.B.E., M.B., M.S., B.Sc., F.R.C.S. (B.).
- Warwick, W. T., M.B., Ch.B. (M.).
- Webb, C. H. S., M.S., M.B., F.R.C.S. (M.).
- Webb-Johnson, A. E., C.B.E., M.B., Ch.B. Manc., F.R.C.S. (M.).
- Williams, G. E. O., M.D., M.S., F.R.C.S. (UM.).
- Wilson, H. W., M.B., M.S., F.R.C.S. (B.).
- Trop. Med.*
- Hewlett, R. T., M.D., F.R.C.P. (H.).
- Low, G. C., M.A. St. And., M.D., C.M. Edin. (H.).
- Newham, H. B. G., C.M.G., M.D., D.P.H., D.T.M. and H. Camb. (H.).
- Venereal Diseases*
- O'Donovan, W. J., M.D. (L.).
- Harrison, Col. L. W., M.B., Ch.B. Glas. (T.).
- Zoology, v. also Protozoology*
- Evans, Thomas James, M.A. Ox. (G.).
- Dental Science**
- Dental Anat. and Physiol.*
- Malleson, H. C., L.R.C.P., M.R.C.S., L.D.S. (G.).
- Pitts, A. T., L.R.C.P., M.R.C.S., L.D.S. (D.).
- Underwood, A. B. G., M.B., B.S., L.R.C.P., M.R.C.S., L.D.S. (UM.).
- Dental Materia Medica*
- Coleman, F., L.R.C.P., M.R.C.S., L.D.S. (D.).
- Doubleday, F. N., L.D.S. (G.).

*Dental Mechanics*

- Bull, F. B., L.D.S. (G.).  
 Chapman, H., L.D.S. (*Orthodontics*) (L.).  
 Matthews, G. F. C., B.D.S. Birm., L.D.S. (KM.).  
 Olver, S. H., L.D.S. (UM.).  
 Samuel, B., L.D.S. (*Orthodontics*) (UM.).

*Dental Prosthetics*

- Allen, A. G., L.D.S. (L.).  
 Fry, W. K., M.C., L.R.C.P., M.R.C.S., L.D.S. (G.).  
 Milne, J. B., L.D.S. Edin. (KM.).

*Dental Surgery*

- Buxton, J. L. D., L.D.S. (UM.).  
 Clapham, H. D., L.R.C.P., M.R.C.S., L.D.S. (L.).  
 Dowsett, E. B., D.S.O., L.D.S., L.R.C.P., M.R.C.S. (G.).  
 Livingston, A., M.B., Ch.B., M.D.S. Liv. (Surg. and Path.) (KM.).  
 Pearce, F. J., L.D.S., D.D.S. (G.).  
 Smale, H., L.R.C.P., M.R.C.S., L.D.S. (SM.).  
 Sprawson, E. C., L.R.C.P., M.R.C.S., L.D.S. (L.).  
 Turner, H. W., M.R.C.S., L.D.S. (M.).  
 Turner, J. G., F.R.C.S., L.D.S. (D.).

GENERAL INFORMATION

*Schools*

ROYAL ARMY MEDICAL COLLEGE, Grosvenor Rd., S.W.1. Commandant—Col. J. S. Bostock, C.B.E.

Opened 1902; under Army Med. Advisory Board; open only to fully qualified medical men commissioned in or probationers for the R.A.M.C. or I.M.S. Profs. of Path. and Bact., Hygiene, Trop. Med., and Military Surgery. Special teaching in Physical Training and at Milly. Hospl. (81 beds), Syphilology. Qu. Alexandra Milly. Hospl. (234 beds) forms part of the Coll. Students (average about 70) are probationers and Captains, R.A.M.C., taking 5 mos.' course for promotion. *Residential* accommodation for 70.

ST. BARTHOLOMEW'S HOSPITAL, Medical College, West Smithfield, E.C.1. Dean—T. W. Shore, O.B.E., M.D., B.Sc. Sub-Dean—J. B. Hume, M.S., F.R.C.S.

Founded 1662. Appointed and Recognized Teachers—43 (v. *supra*). *Library*: the largest of the kind in London. *Museum*: 10,000 specimens, 2000 casts and drawings. *Laboratories*, with facilities for research in Path., Pharmacol., etc. 757 beds. *Fees*: 220 gs. for whole curriculum; from 1st M.B., 190 gs. *Scholarships*: total annual value over £1200; two for Research in Path. (£145) and Surg. (£150) open to graduates of any Univ. educated at Bart.'s. Large Athletic Grounds. Students' Union, including Athletic Clubs and Abernethian Soc. *Publications*: *Hospital Reports*, annually, and *Journal* (Students'), monthly. Women students are not eligible for admission.

BETHLEM ROYAL HOSPITAL, Lambeth Rd., S.E.1. *Physician Superintendent*—J. G. Porter Phillips, M.D., B.S., F.R.C.P.

Founded 1247. A centre for the teaching and practice of *Psychological Medicine*. Two courses of lectures and practical instruction for Dip. Psy. are held annually. Daily clinical instruction classes. Pathological Laboratory. X-ray apparatus. Convalescent Home at Witley, Surrey.

CANCER HOSPITAL (FREE), Fulham Rd., S.W.3. *Dir. of the Research*

*Inst.*—A. Leitch, M.D., Ch.B. *Dir. of the Electrical and Radio-therapeutic Dept.*—J. O. Harvey, M.D. Recognized in Adv. Pathology, Radiology in relation to malignant disease.

CHARING CROSS HOSPITAL, Medical School, Charing Cross, W.C.2. Dean—E. A. Crook, M.Ch., F.R.C.S. Secy.—G. C. Beall, B.A. Founded 1821. Appointed and Recognized Teachers (*v. supra*)—14. *Fees*: entrance, 10 gs.; annual, 38 gs. Several scholarships, etc.

ROYAL DENTAL HOSPITAL AND LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq., W.C.2. Dean—H. Stobie, L.R.C.P., M.R.C.S., L.D.S. Secy.—W. J. Wadham.

Founded 1858. Open to both sexes. Recognized Teachers—3 (*v. supra*); others—30. Library, Museum, and Laboratories. X-ray Dept. Students are admitted for the curriculum for the B.D.S. Degree and the L.D.S. Diploma. *Fees*: for the L.D.S., £70 for 2 yrs.' Hospl. practice and Lectures, or, including 2 yrs.' Dent. Mechanics, £210; for the B.D.S., £35 annually for first three yrs., and £70 for fourth.

GUY'S HOSPITAL, Medical School, St. Thomas's St., Borough, S.E.1. Dean—Prof. T. B. Johnston, M.B., Ch.B. Secretary—J. H. E. Winston, F.I.S.A.

Founded in connexion with St. Thomas's, 1769; as a separate School, 1825. Appointed and Recognized Teachers—50 (*v. supra*). Library, 10,000 vols. Museum, 5000 specimens and 2000 drawings. 626 beds. Fully equipped Dental Dept. with Lab. *Fees*: entrance, £28; annual, £49. Foundations in aid of Research: Lect'ship in Path., approx. £1300 p.a.; in Clin. Chem., £250; Trav. Studentship, £150; Studentship in Mat. Med., £40; in Path., £250; Dem'rship in Clin. Chem., £150; in Path., £320; Med. Research Fellowship, etc. Numerous prizes and entrance scholps. Resident *appointments*—numerous House appointments are made every 3 mths. from amongst the recently qualified students. *Residential accommodation* for 35 students. Furnished rooms, 19s. to 36s. *Students' Publication*: *G.H. Gazette*. Women students are not eligible for admission.

LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE. Director—Sir Andrew Balfour, C.B., C.M.G., D.P.H. Secy.—R. W. Harris. Keppel Street (Gower Street), W.C.1.

This School was constituted by Royal Charter on April 1, 1924. The Charter provides that, subject to compliance with the Statutes of the University, the School will be recognized in the Faculty of Science and in the Faculty of Medicine in so far as the branches of Public Health, Hygiene, State Medicine, and Tropical Medicine are concerned. The school has been built and equipped with a sum of \$2,000,000 provided by the Rockefeller Foundation, who made the gift on the understanding that the British Government would make adequate grants for staffing and maintaining the School. It includes the following depts.: (1) Public Health; (2) Bio-Chemistry and Chemistry as applied to Hygiene; (3) Bacteriology and Immunology; (4) Medical Zoology; (5) Epidemiology and Vital Statistics; (6) Tropical Medicine and Hygiene. It provides for the training and equipment of public health officers, and for research in various branches of preventive medicine.

The courses of study in all branches of the work of the School are given in the new premises in Keppel St. (Gower St.), which has excellent labs. and research rooms, a fine lecture theatre and classrooms, library and museum.

*Tropical Medicine and Hygiene.* On Aug. 1, 1914, the School took over from the Seamen's Hospital Society the old School of Tropical Medicine. Appointed and Recognized Teachers—16 (*v. supra*). In the various Hospls. of the Seamen's Hospital Society are always numerous cases of Trop. Diseases available for teaching purposes. The funds available for encouraging research include the Lord Milner Research Funds, the Wandsworth Bequest, and the E. J. Stanley Memorial. Research expeditions are equipped and maintained by the School and Field Stations established. Students must ordinarily be qualified Med. practitioners. There are 2 sessions of 20 weeks each. An examn. is held at end of each term. Trop. Med. courses suitable for candidates for the M.D. in Trop. Med., Camb. diploma in Trop. Med. and Hyg., and the D.T.M. and H. of the Conjoint Board. Certificates granted. *Fees*: 30 gs. for 20 weeks.

*Diploma in Public Health.* The course of study commencing October 1 extends over a period of 12 calendar mos. divided into 3 terms of 12 weeks each, and is so arranged that students will be able to comply with all requirements of the Gen. Med. Council. The School provides 290 hours instruction in Bacter., Parasit. (including Med. Ent.), Chem., Physics, Meteorol., and Climatol., and at least 170 hours in Hyg., Pub. Health Admin., Epidemiol. and Vital Stats. Included in the syllabus are some 40 special lectures by recognized experts in various public health problems, and a similar number of visits to carefully selected places of outstanding public health interest. The course of study is designed to enable candts. to proceed to the new academic Dipl. in Pub. Health instituted by the Univ. Fee for course, £54.

*Diploma in Bacteriology.* The special course of study for the Dipl. in Bacter. covers a period of one acad. year beginning in October. Fee for course, £47: 15s.

KING'S COLLEGE HOSPITAL Medical School, Denmark Hill, S.E.5. Dean—H. Willoughby Lyle, M.D., B.S., F.R.C.S. Vice-Dean—J. A. Drake, M.D., F.R.C.P., D.P.H. Secy.—S. C. Ranner, M.A.

Appointed and Recognized Teachers—37 (*v. supra*); others—18. *Fees*: entrance, 10 gs.; complete courses for Med. Degree and Diploma examns., 200 gs.; final course only, 93 gs. *Scholarships*: Scholarships of a total value of £1530 are offered annually (particulars on application). *Hostel* with accommodation for 80 men students. *Students' Publication*: *K.C.H. Gazette*.

LONDON HOSPITAL, Medical College and Dental School, Turner St., Mile End, E.1. Dean—Prof. W. Wright, M.B., D.Sc., F.R.C.S. Secy.—E. J. Burdon. Women students are not eligible for admission.

Founded 1781. Appointed and Recognized Teachers—39 (*v. supra*); others—65. Library includes Thompson Yates Research Library containing chief foreign periodicals for Anat., Physiol., and Path. Laboratories include those of the Bernhard Baron Inst. of Path. for Advanced Research. 839 beds. *Fees*: entrance, 20 gs.; annual, 40 gs. 34 scholps. and prizes. Hostel for 25 students. 160 appointments available for students. *Students' Publication*: *L.H. Gazette*.

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd., S.W.1. Director—Prof. Sir Charles J. Martin, C.M.G., M.B., D.Sc., F.R.S. Secy.—A. L. White.

Founded 1891 for Research into causation, prevention, and treatment of diseases of men and animals. Open to approved Research students of both sexes, usually without fee. Appointed and Recognized Teachers—8 (*v. supra*); 10 other members of scientific staff.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St., Brunswick Sq., W.C.1. Dean—Lady Barrett, C.H., C.B.E., M.D., M.S. Warden and Secy.—Miss Brooks.

Founded 1874. Appointed and Recognized Teachers—26 (v. *supra*); others—32. 268 beds. Special arrangements with several other Hospls. for Clin. study and dresserships, etc. Research Laboratories: Anat., Biol., Chem., Obst. and Gyn., Path., Pharmacol., Physics, Physiol. Courses for B.Sc. Hons. in Anat. and Physiol., as well as for Med. degrees and diplomas. Arrangements for Dental students. *Fees*: £50 p.a. throughout the course. Students' chambers provided for 80 students. *Students' Publication*: *L.S.M. Gazette*.

MAUDSLEY HOSPITAL, Denmark Hill, S.E.5. Medical Superintendent—E. Mapother, M.D., F.R.C.P., F.R.C.S. Director of Pathological Department—F. L. Golla, M.B., F.R.C.P.

Founded by the London County Council for research in Psychological Medicine, the teaching of this subject, and the treatment, on a voluntary basis, of those suffering from neuroses and from recoverable forms of mental disorder. The Hospital, which is similar in general character to the Neurological and Psychiatric Clinics of the Continent and America, and the associated Pathological Department, which serves all the London County Mental Hospitals (containing 20,000 patients), were admitted as a School of the University for research in Psychological Medicine on May 7, 1924. The Hospl. has 177 beds and an out-patient department. The Path. Dept. includes a Library and Laboratories for anatomical, bio-chemical, bacteriological, and experimental investigations. Diploma and other courses for undergraduate and graduate students. Facilities for research and for gaining experience. Ordinarily no charge is made for research work, and special grants-in-aid may be made.

MIDDLESEX HOSPITAL, Medical School, Mortimer St., W.1. Dean—T. Izod Bennett, M.D., F.R.C.P. School Secy.—R. A. Foley.

Founded 1835. Appointed and Recognized Teachers—38 (v. *supra*); others—13. Over 450 beds, including *Cancer wing* (90); Bland-Sutton Institute of Path. with Museum and Labs.; *Cancer Research Labs.*; The S.A. Courtauld Institute of Bio-Chemistry. Scholarships, etc., worth £1000 p.a., include 2 of £150 for *Cancer Research*. *Fees*: Entrance, £25; 5 annual, £45. No accommodation for women students.

NAVAL MEDICAL SCHOOL OF THE ROYAL NAVAL COLLEGE, Greenwich, S.E.10. Director of Med. Studies—Surg.-Captain J. S. Dudding, O.B.E., M.R.C.S., L.R.C.P., R.N.

Opened 1912. Courses (twice a year) in General and Naval Hygiene, Clin. Path., Micro-Biology, for acting Surg.-Lieuts. (2 mos., followed by 4 mos. at Haslar Hospl.); Surg.-Lieuts. (5 mos.) for promotion; for Senior Med. Officers (3 mos.). Number of officers under instruction (average)—70 a year.

SCHOOL OF PHARMACY of Pharmaceutical Society of Great Britain, 17 Bloomsbury Sq., W.C.1. Dean—Prof. H. G. Greenish, D. ès Sc. Paris, F.I.C., F.L.S.

Founded 1842. Admitted as a School of the Univ. (in Pharmacy only) on Jan. 1, 1925. Recognized Teachers—3 (v. *supra*); others—8. *Fees*: Course for the Chemist and Druggist Qualifying Examn., £31:10s.; for the Pharmaceutical Chemist Qualifying Examn. and for the B.Pharm. degree (2 years), £44:2s. (each year). Open to students of both sexes.

ST. GEORGE'S HOSPITAL, Medical School, Hyde Park Corner, S.W.1.  
Dean—A. Feiling, M.D., F.R.C.P.

Founded 1752. Appointed and Recognized Teachers—19 (*v. supra*); others—19. 440 beds. *Fees*: entrance for Clinical course, 10 gs. Annual composition, 40 gs. Scholarships, etc., worth £180 p.a. for encouragement of research. *St. G.'s Gazette* is issued 3 times a year. Women students are not eligible for admission.

ST. MARY'S HOSPITAL, Medical School, Paddington, W.2. Dean—C. M. Wilson, M.D., F.R.C.P. Secy.—B. E. Matthews, B.A. *Students' Publication*: *St. M. H. Gazette*.

Founded 1852. Appointed and Recognized Teachers—34 (*v. supra*); others—21. *Fees*: Course for 1st M.B., 3 terms, 20 gs.; entire curriculum, £205. *Scholarships*: £210 (2), £200 (2), £25. *Clinical Units* in Med. and Surg. established in 1920–21.

ST. THOMAS'S HOSPITAL, Medical School, Albert Embankment, S.E.1.  
Dean—Prof. L. S. Dudgeon, C.M.G., C.B.E. Medical Secretary—R. J. C. Thompson, C.M.G., D.S.O., M.D., M.R.C.P.

Founded in 16th century. Recognized Teachers—37 (*v. supra*); others—36. Path. Dept. includes Museum with 3000 specimens. Large Laboratories for teaching and research. Hospl. beds, 602. *Fees*: Tuition per annum, £50. Hostel accommodation for 50. Women students are not eligible for admission.

TROPICAL MEDICINE, LONDON SCHOOL OF HYGIENE AND, *v. supra*.

UNIVERSITY COLLEGE HOSPITAL, Medical School, University Street, W.C.1. Dean—A. M. H. Gray, C.B.E., M.D., F.R.C.P., F.R.C.S. Vice-Dean—Gwynne Williams, M.S., F.R.C.S. Sub-Dean for Dental Students—J. L. Dudley Buxton, L.M.S.S.A., L.D.S. Secy.—R. Sloley. Open to both sexes.

The Med. School was separated from the Univ. Coll. Med. Faculty in 1905. Recognized Teachers—27 (*v. supra*); others—84. *Library*, 20,500 vols. The *Charles Graham Laboratories*, under the direction of Prof. A. E. Boycott, were established in 1902 for research in Path. A limited number of qualified students are admitted as Lab. workers, to whom grants may be made. *Fees*: course for Final M.B., B.S., or 3rd examn. of Conjoint Board—112 gs. *Scholarships, etc.*: annual value, £1250. *Residence* for Maternity students. *Publications*: *Prospectus, Transactions of Research Dept., Magazine (Students')*.

The NATIONAL DENTAL HOSPITAL, founded in 1861, became the Dental Department of Univ. College Hospl. in 1914. Address: 187–191 Gt. Portland St. and 59 Devonshire St., W.1.

WESTMINSTER HOSPITAL, Medical School, 12 Caxton St., Westminster, S.W.1. Dean—A. S. Woodwark, C.M.G., C.B.E., M.D., F.R.C.P. Secy.—Major J. Burke, D.S.O., M.C., D.C.M.

Founded 1834. Recognized Teachers—29 (*v. supra*); others—14. *Fees*: £40 p.a. and 10 gs. entrance.

### *Institutions with Recognized Teachers*

BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd., S.W.3. Dean—Maurice Davidson, M.A., M.D., F.R.C.P. Sub-Dean—E. E. Atkin, B.A., M.B. Recognized in Med., Oto-Rhino-

Laryng. Pathol. Instruction is given to post-graduate students all the year round ; instruction is also available to undergraduate students about to enter for their final examination in Medicine (Conjoint Board or University, M.B., etc.). *Fees* for attending the practice of the hospital : 1 guinea for one month, 2 guineas for 3 months, payable to the Dean, Brompton Hospital, to whom all inquiries should be addressed.

HOSPITAL FOR SICK CHILDREN, Gt. Ormond St., W.C.1. *Dean*—E. I. Lloyd, F.R.C.S. Recognized in Bact., Dis. of Child., Surg.

NATIONAL HOSPITAL FOR DISEASES OF THE NERVOUS SYSTEM, Queen Square, London, W.C.1. *Dean*—J. G. Greenfield, B.Sc., M.D. Recognized in Med., Neurology, Ophth., Oto-Rhino-Laryng., Surg. Students, 584.

ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd., E.C.1. *Dean*—C. B. Goulden, M.D., F.R.C.S. Recognized in Ophth. Students, 220.

NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, N.W.3. Departments for Experimental Pathology and Bacteriology, Biochemistry and Pharmacology, Applied Physiology and Hygiene, and Applied Optics, each under a separate Director. All communications should be addressed to the Secy., Medical Research Council, 38 Old Queen St., S.W.1.

*See also* Appendix XXIV.

## FACULTY OF LAWS

The teaching of the Univ. has been arranged on an inter-collegiate basis, the Profs. and Teachers of Univ. and King's Colleges and of the London School of Economics dividing the work among them. See also staff lists of Birkbeck College and School of Economics.

### PROFESSORS AND TEACHERS

- |  |  |
|--|--|
| Ball, W. Valentine, O.B.E., M.A.<br>Camb.* (Railway L.) (E.).                | Hurst, G.H. J., M.A., LL.M. Camb.*<br>Reader in English L. (U.).   |
| Bell, W. L. L., B.A.* (Criminal<br>L. and Procedure) (K.).                   | Jolowicz, H. F., M.A. Ox., M.A.,<br>LL.B. Camb.  |
| de Montmorency, J. E. G., M.A.,<br>LL.B. Camb.*                              | Reader in Roman Law (U.).  |
| Quain Prof. of Compara-<br>tive L. (U.).                                     | Lauterpacht, H., LL.D. (E.).   |
| Dold, G. W. F., B.A., LL.B.<br>(Roman Dutch L.) (U.).                        | Mackay, H. J. H., M.A., LL.B.<br>Glas.* (English L.) (K.).   |
| Gahan, F., M.A., LL.B., B.C.L.<br>(Roman L.) (U.).                           | Morgan, J. H., B.A. Ox., M.A.*<br>Prof. of Constitutional<br>L. (U.), and Lectr. in<br>Colonial Constitutional<br>L. (U.). |
| Gilbert, A. S., LL.M. (U.).  | Parry, D. H., M.A. Wales, LL.M.<br>Camb.*  |
| Griffith, W. Hussey, M.A. Camb.*<br>(English L.) (K.).                       | Reader in English Law (E.).  |
| Guest, E. R., B.A., B.C.L. (U.).   | Richardson, J. B. (Eng. L.) (U.).  |
| Gutteridge, H. C., M.A., LL.M.<br>Camb.*, Docteur en Droit<br>(Lyon)         | Sabonadière, A. (Hindu and Mo-<br>hammedan L.)   |
| Cassel Prof. of Comml.<br>and Indust. L. (E.).                               | Reader (U. and O.).  |
| Hibbert, W. N., LL.D.* (Jurispr.<br>and Roman L.) (K.).                      | Smith, H. A.<br>Prof. of Internat. Law (E.).   |
| Hill, Judge, W. H.<br>(L. of Palestine, Cyprus and<br>Iraq) (on leave) (U.). | Topham, A. F., K.C. (Banking<br>L.) (K.).  |
| (Deputy, S. G. V. FitzGerald).   | Williams, C. H., M.A. (U.).  |

\* Barrister-at-Law.

For explanation of letters (E), etc., see p. 104.

## OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS

- |   |   |
|---|---|
| (1) GOLDSMITHS' COLLEGE.*<br>(2) BATTERSEA POLYTECHNIC.<br>(6) JEWS' COLL.<br>(7) NORTHAMPTON POLYT. INST.<br>(8) NORTHERN POLYT.<br>(9) ROYAL VETERINARY COLL.<br>(10) SIR JOHN CASS TECH. INST.<br>(11) CHELSEA POLYT.<br>(12) WEST HAM MUNICIPAL COLL. | (13) WOOLWICH POLYTECHNIC.<br>(14) MARIA GREY TRAINING COLL.<br>(15) ST. MARY'S COLL., PADDINGTON.<br>(16) FURZEDOWN TRAINING COLLEGE.<br>(18) ROTHAMSTED EXPERIMENTAL STATION.<br>(19) ROYAL ACADEMY OF MUSIC.<br>(20) ROYAL COLL. OF MUSIC.<br>(21) TRINITY COLL. OF MUSIC. |
|---|---|

\* Incorporated in the Univ.

## NAMES OF RECOGNIZED TEACHERS

*Note.*—In the following list the names of the instns. are indicated by numerals—as shown above. Nos. omitted were assigned to Instns. which no longer exist, or which now have no recognized teachers. Teachers to whom only probationary recognition has been granted are not included in the list.

- |  |       |
|--|-------|
| <i>Agriculture</i>   |       |
| Keen, B. A., D.Sc. (Physics applied to A.)                     | (18). |
| <i>Biology, v. supra, Medical Schools' Recognized Teachers</i> |       |
| <i>Botany</i>  |       |
| Brett, Margaret, M.Sc.   | (8).  |
| Drabble, F., D.Sc. Lond. and Sheff., A.R.C.S., F.L.S.          | (8).  |
| Lacey, H. B., F.L.S.   | (11). |
| <i>Chemistry</i>   |       |
| Barnett, E. de B., B.Sc.                                       | (10). |
| Bell, F., B.Sc., Ph.D.   | (2).  |
| Clough, G. W., D.Sc. Birm.                                     | (9).  |
| Davies, C. W., M.Sc. Wales                                     | (2).  |
| Dean, G., M.A. Camb.   | (12). |
| Dorée, C., M.A. Ox., D.Sc.                                     | (11). |
| Drakeley, T. J., Ph.D., M.Sc., F.C.S., A.I.C.                  | (8).  |
| Field, S., A.R.C.S. (Applied C.)                               | (7).  |
| Goodway, N. F., M.Sc.  | (10). |
| Heap, T., B.Sc. Manc., M.Sc., Ph.D.                            | (2).  |
| Kenyon, J., D.Sc., F.I.C.                                      | (2).  |
| King, H. J. S., Ph.D., M.Sc.                                   | (8).  |
| Lowe, F. H., M.Sc. Manc.                                       | (11). |
| Patterson, W. S., M.Sc. Leeds, Ph.D. (App. C.)                 | (7).  |
| Sand, H. J. S., Ph.D. Zür., D.Sc. Birm.                        | (10). |
| Shacklock, C. W., M.Sc.  | (8).  |
| Smith, F. W., B.Sc.  | (8).  |
| Streatfield, F. H.   | (12). |
| Thorne, P. C. L., M.A. Camb., M.Sc., Ph.D., F.I.C.             | (13). |
| Ward, A. M., B.Sc., Ph.D.                                      | (10). |
| <i>Chemistry, Organic</i>                                      |       |
| Crocker, J. C., M.A. Camb., D.Sc., F.C.S.                      | (11). |
| Richardson, D. H., M.Sc.                                       | (8).  |

*Classics*

Crump, Mary, M.A. (Latin) (1).

*Education*, v. also Music

Dean, A. E., M.A., M.Litt. (1).

Firth, Catherine B., D.Lit. Lond. (16).

Graveson, Caroline C., B.A. (1).

Green, Mrs. A. N., M.A. Manc.

Johnston, Katharine L., M.A.

Sheff., T.D. Camb., B.A. (14).

Meiklejohn, Grace I. W., M.A. Edin. (14).

Reaney, Mabel J., D.Sc. Lond. (16).

Silsby, Eleanor, M.Sc. Lond. (16).

Smith, Phyllis W., M.A. (14).

Steppat, Mrs. M. A. A., M.A. Durh., M.A. (14).

Storr, Muriel, M.A. Ox. (1).

Terry, Edith, M.A. Lond. (16).

Wimms, J. H., M.A. Wales, B.Sc. (1).

*Engineering, Civil*

Bolam, W. N., B.Sc. Edin. (7).

Brooks, W. H., Ph.D., B.Sc. (Eng.) (7).

Curnock, W. E. M., M.Sc. (Eng.) Manc., B.Eng. Liv., (Lectr. in Civ. and Mech. E.) (2).

Ward, J., B.Sc. (Eng.) (7).

*Engineering, Electrical*

Baillie, T. C., D.Sc., M.A. Edin., (12).

Boraston, C. A., B.Sc. (Eng.) Liv. (7).

Bridger, W., B.Sc. (Eng.) (12).

Burgess, Alfred F., B.Sc. (Eng.) (7).

Dover, A. T. (2).

Dowse, C. M., B.Sc. (Eng.) (7).

Hill, H., B.Sc. (Eng.) (7).

Howgrave-Graham, R. P. (recognized also in Applied Physics) (7).

Jolley, A. C. (7).

Mann, H. C., B.Sc. (Eng.) (2).

Spencer, W. G., M.Sc. (Tech.) Manc. (13).

*Engineering, Mechanical*, v. also E., Civil

Ashworth, M. H., B.Sc. Manc. (13).

Davies, V. C., B.Sc. (2).

Dumbrill, W. E., B.Sc. (Fluids) (7).

Edmonds, H. M., B.Sc. (Eng.) (2).

Frier, J. D. (Fluids) (7).

Larard, C. E., M.I.Mech.E., M.I.C.E. (7).

Oliver, H. C., B.Sc. (Eng.) (12).

Peck, W. J., M.Sc. (Eng.) Sheff. (2).

Richardson, D. (7).

Scoble, W. A., M.B.E., D.Sc. (Eng.), M.I.Mech.E. (13).

Shaw, J. B., A.R.C.S. (2).

*Engineering, Mech., and Surveying*

Duncan, J., M.I.Mech.E. (12).

Gladwyn, A. E., B.Sc. (Eng.) (12).

Parker, W. E., B.Sc. (Eng.) Manc. (7).

*Eng. Lang. and Literature*

Rees, W., M.A. Ox., Ph.D. (1).

*Geology*

Brammall, A., M.Sc. (8).

Maslen, A. J., F.G.S. (11).

*History*

Dymond, Dorothy, M.A. (1).

*Mathematics*

Bickley, W. G., M.Sc. (2).

Church, A. E. R., M.A., B.Sc. (10).

Clay, R. S., B.A. Camb., D.Sc. (M. and Physics) (8).

Curzon, H. E. J., M.A. Camb., D.Sc. (1).

Geary, A., M.A. Camb., M.Sc. (7).

Harvey, F. W., M.A. R.U.I., B.Sc. (2).

Henderson, J. M. A., B.Sc. Edin., Ph.D. (K., 10).

Littlejohn, E. S., M.Sc. Manc. (12).

Ludlam, A. E., M.Sc. Birm. (11).

Rhind, A., B.Sc., A.R.C.S. (8).

- Salmon, W. H., M.A. Camb., B.Sc. (12).  
 Saxelby, F. M., M.Sc. Manc., B.A. (2).  
 Smith, R. T., B.A. Camb. (13).  
*Medicine and Surgery*, v. *supra* (p. 160).  
*Metallurgy*  
 Naish, W. A., A.R.S.M., M.I.M.M., A.I.C. (11).  
*Music*  
 Allen, Sir H. P., Mus.D., M.A. Ox., F.R.C.M. (20).  
 Buck, P. C., M.A., Mus.Doc. Ox., M.A. Dub. Prof. (20).  
 Carse, A., F.R.A.M. (19).  
 Colles, H. C., M.A., B.Mus. Ox. (20).  
 Dale, B. J., F.R.A.M., F.R.C.O. (19).  
 Dunhill, T. F., A.R.C.M. (20).  
 Dyson, G., Mus.Doc. Ox. (20).  
 Farjeon, H., F.R.A.M. (19).  
 Greenish, A. J., Mus.D. Camb. (19).  
 Harrison, J. H. G. (19).  
 Hickox, W. H., Mus.Bac. Ox., Mus.Doc. Dub., F.R.C.O. (2).  
 Hinton, A., F.R.A.M. (19).  
 Howells, H. N., F.R.C.O., A.R.C.M. (20).  
 Kerridge, W. H., M.A., Mus.Bac. Camb., A.R.C.M., F.R.C.O. (11).  
 Kitson, C. H., M.A. Camb., Mus.Doc. Ox., F.R.C.O. (20).  
 Long, J. C., Mus.B. Ox. (21).  
 McEwen, J. B., M.A. Glas., F.R.A.M. (19).  
 Macpherson, S., F.R.A.M. (19).  
 Oldroyd, G., D.Mus. (21).  
 Roper, E. S., M.A., Mus.B. (21).  
 Salsbury, Janet, Mus.D. Durh., L.R.A.M., F.R.C.O. (21).  
 Sowerbutts, J. A., B.Mus., F.R.C.O. (19).  
 Waddington, S. P. (20).  
 Wallace, W., M.D. Glas., F.R.A.M. (19).  
 Warriner, J., Mus.D. Dub. (also in *Pedag.* as applied to Music) (21).  
 Wharton - Wells, H., B.Mus. Ox. and Durh., F.R.C.O., L.R.A.M. (also recognised in *Pedag.* as applied to Music) (11).  
*Pedagogy*, v. Education and Music  
*Physics*, v. also Maths.  
 Charlesworth, J., M.Sc. Manc. (8).  
 Clarke, F. C., B.Sc. (12).  
 Clay, R. S., D.Sc. Lond., B.A. Camb. (8).  
 Emsley, H. H. (App. P.) (7).  
 Evans, A. E., B.Sc. (2).  
 Howgrave-Graham, R. P. (App. P.) (7).  
 Humphry, R. H. (10).  
 Laws, S. C., M.A. Camb., M.Sc. (7).  
 Lownds, L., Ph.D. Berl., B.Sc. (11).  
 Marsh, S., B.Sc. Wales, Ph.D. Gött. (2).  
 Nicol, J., B.A. Camb., B.Sc. (8).  
 Owen, D., B.A. Camb., D.Sc. (10).  
 Polson, W., M.A., B.Sc. Aberd. (12).  
 Starling, S. G., B.Sc., A.R.C.S. (12).  
 Tarrant, A. G., B.Sc., A.R.C.S. (11).  
 Vinycomb, T. B., M.A. R.U.I. (13).  
*Semitic Languages*  
 Büchler, A., Ph.D. Leip. (6).  
 Daiches, S., Ph.D. Leip. (6).  
 Epstein, I., D.Lit., Ph.D. (6).  
 Hirschfeld, H., Ph.D. Stras. (S. Epig. and Hebrew and S.) (U., 6).  
 Marmorstein, A., Ph.D. Heid. (Bible and Rabbinics) (6).  
*Veterinary Hygiene*  
 Wooldridge, G. H., F.R.V.S. (9).  
*Veterinary Pathology*  
 Hare, T., M.D., B.Ch., B.V.Sc. Liv., M.R.C.V.S. (9).  
*Zoology*  
 Leigh-Sharpe, W. H., B.Sc. (11).

## GENERAL INFORMATION

[(a) Principal. (b) Subjects in which recognized. (c) Number of students.]

1. UNIVERSITY OF LONDON, GOLDSMITHS' COLLEGE, New Cross, S.E.14. Incorporated in the Univ. Warden, and Principal of the Training Dept.—A. E. Dean, M.A. Vice-P'pals. of Training Dept.—R. A. Raven, M.A., and Miss C. C. Graveson, B.A.

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891. Open to both sexes. Recognized Teachers—9 (v. *supra*)—Classics, Educn., Engl., Hist., Maths.; others—63.

*Training Department.* Recognized by Bd. of Educn. as a Training Coll. Ordinary course—2 yrs., or for B.A. (Pass) or B.Sc. (General) degree—3 yrs. Lectrs. and Instrs.—34. *Annual fee* for tuition with mid-day meal: £25:10s. or £30:10s., according to the course taken. Hostels provide accommodation for nearly all the women and many men students.

*School of Art* (Day and Evening). Headmaster and 7 Assts. *Fees*: Day, £5 to £15; Evening, 10s. to 30s., per session.

*Engineering and Building Dept.* (Evening). Carried on at expense of L.C.C. and only temporarily retained at the Coll. Courses: College Certif. and Diploma; National Certificate; C.G.I. examns.; Engineering Degree (5 yrs.).

2. BATTERSEA POLYTECHNIC, Battersea Park Rd., S.W.11. (a) G. F. O'Riordan, B.Sc. (Eng.). (b) Chem., Engin. (Civ., Elec., Mech.), Maths., Music, Physics. (c) 2940.

6. JEWS' COLLEGE, Queen Sq. House, Guilford St., W.C.1. (a) A. Büchler, Ph.D. (b) Hebrew, Semitics. (c) 27.

7. NORTHAMPTON POLYTECHNIC INSTITUTE, St. John St., E.C.1. (a) S. C. Laws, M.A., M.Sc. (b) Engin. (Civil, Mech., Elec.), Physics, Chem., Maths. (c) 2592.

8. NORTHERN POLYTECHNIC, Holloway Rd., N.7. (a) R. S. Clay, D.Sc., B.A. (b) Bot., Chem., Geol., Maths., Physics. (c) 3517.

9. ROYAL VETERINARY COLLEGE, Gt. College St., Camden Town, N.W.1. (a) Prof. F. T. G. Hobday, C.M.G., F.R.C.V.S., F.R.S.E. (b) Biol., Chem., Vet. Hyg., Vet. Path. and Bact., Physiol. (c) 180.

10. SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (a) G. Patchin, A.R.S.M., M.I.M.M. (b) Chem., Maths., Physics. (c) 1000 (approx.).

11. CHELSEA POLYTECHNIC, Manresa Rd., Chelsea, S.W.3. (a) F. J. Harlow, B.Sc., F.Inst.P., A.R.C.Sc. (b) Bot., Chem., Geol., Maths., Metall., Music, Pharm., Physics, Zool. (c) Day, 846; Evg., 2259.

12. WEST HAM MUNICIPAL COLLEGE, Romford Rd., West Ham, E.15. (a) T. C. Baillie, M.A., D.Sc. (b) Chem., Engin. (Elec., Mech.), Maths., Physics, Surveying. (c) Day, 250; Evg., 1650.

13. WOOLWICH POLYTECHNIC, William St., Woolwich, S.E.18. (a) A. F. Hogg, M.A., F.C.S. (b) Chem., Engin. (E., M.), Maths., Phys. (c) 1073.

14. MARIA GREY TRAINING COLLEGE, Salusbury Rd., Brondesbury, N.W.6. (a) Miss K. L. Johnston, M.A. (b) Educn. (c) 187.

15. ST. MARY'S COLLEGE, 34 Lancaster Gate, W.2. (a) Miss Apperson, M.A. *Head of Training Department*—Mrs. J. A. Green, M.A. (b) Secondary and Froebel Teachers' Diploma. (c) 100.

16. FURZEDOWN TRAINING COLLEGE, Welham Rd., Mitcham Lane, S.W.17. (a) Miss A. Lloyd Evans, M.A. (b) Pedagogy. (c) 264.

18. ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts. *Director*—Sir John Russell, D.Sc., F.R.S. (b) Science (in its application to Agric.). For research students only.

19. ROYAL ACADEMY OF MUSIC, Marylebone Rd., N.W.1. (a) John B. McEwen, M.A., Mus. Doc., F.R.A.M., F.R.C.M. (b) Music.

20. ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S. Kensington, S.W.7. *Director*—Prof. Sir Hugh P. Allen, K.C.V.O., M.A., Mus.D., D.Litt. (b) All Music subjects. (c) 700.

21. TRINITY COLLEGE OF MUSIC, Mandeville Place, W.1. (a) E. Stanley Roper, M.A., Mus.B. (b) All subjects for the Mus. degrees of Lond. and other Univs.

# VICTORIA UNIVERSITY OF MANCHESTER

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M.B., Ch.B.; OF COMMERCE AND ADMINISTRATION—FRANCES  
COLLIER, M.A.

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Wilkinson, R. H. E., F.C.A.		Paterson, R. S., M.B., Ch.B., D.M.R.E. Camb.
	Asst. Lectr.	
<i>Agriculture</i> , v. Bot. Chem., Econ., Zool.		<i>Archæology</i>
		Forster, E. S., M.B.E., M.A. Ox., F.S.A. (Prof. of Greek in Univ. of Sheffield)
<i>Anatomy</i>		Lectr. (Classical A.).
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	Prof.	<i>Architecture</i> , v. also Archæology
Stewart, D., M.Sc., M.R.C.S., L.R.C.P.	Lectr.	Dickie, A. C., M.A., F.S.A., A.R.I.B.A.
Cooper, Eugenia R. A., M.Sc., M.D.	Asst. Lectr.	Prof. Edwards, W. B., B.Arch. Liv., A.R.I.B.A.
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		Asst. Lectr.
<i>Anatomy, Applied</i>		.....
Lectrs.:		Lectr. (Italian Mural Painting).
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*Botany*

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Glas., M.Sc., F.R.S.

Barker Prof.  
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Lectr.  
Brimble, L. J. F., B.Sc. Lond.  
Lectr.

Manton, Irene, B.A. Camb.  
Asst. Lectr.  
Colson, Barbara, B.Sc. Lond.  
Asst. Lectr.  
La Touche, C. J. P. D., M.Sc. Dub.  
Res. Asst. in Mycol.

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Physiol., Tech.

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Birm., D.Sc. Lond., M.Sc.,  
F.R.S. Sir S. Hall Prof.

..... (Organic C.) Prof.  
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Ph.D. Prague, D.Sc., F.R.S.

Hon. Prof.  
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D.Sc. Bris. (Stoichio-C.)

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Challenger, F., D.Sc. Birm., B.Sc.  
Lond., Ph.D. Gött.  
Campbell, C., D.Sc.

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Core, A. F., M.Sc. (S.).  
Henry, D. C., M.A. Camb.  
Fairbrother, F., D.Sc.  
Core, C. G., M.Sc. (H., S.).

Burkhardt, G. N., M.Sc., Ph.D.  
Herbert, J. B. M., B.Sc.  
Stewart, R., B.Sc. Edin. (Agric.  
Chem.).

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Evans, M. G., M.Sc.  
Hey, D. H., M.Sc. Wales, B.Sc.  
Lond.

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..... Lectr.  
*Classics*, v. also Archæology  
Calder, W. M., M.A. Aberd., Ox.  
and Manc., LL.D. Aberd.

Hulme Prof. of Greek  
and Lectr. in Christian  
Epigraphy.  
Anderson, W. B., M.A. Camb. and  
Manc., D.Litt. Aberd.

Prof. (Latin).  
Beare, William, M.A. Dub.  
Sen. Lectr.  
Husband, Jeanie, B.A. Liv.  
Lectr.

McLachlan, H., M.A., D.D.  
(Hellenistic Greek) Lectr.  
Clifton, E. W. V., M.A. Ox. Lectr.  
Maguinness, W.S., B.A. Dub.

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Camb. Asst. Lectr.  
Newell, A. N., B.A. Camb.  
Asst. Lectr.

Davison, J. A., B.A. Ox.  
Asst. Lectr.

*Crystallography*

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Ox., D.Sc. Shef., LL.D. Liv.,  
Ph.D. Christ., F.R.S.

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*Dentistry*, v. *infra*

*Economics and Commerce* v. also  
Banking, Acc., Econ., Rail.  
Stat.

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Jevons Prof.

Ashton, T. S., M.A.  
(Cur. and Fin.) Reader.

Redford, A., M.A., Ph.D.  
(Econ. Hist.) Reader.

Roberts, Arthur, M.Com. Lectr.  
Orr, J., M.A. Glas.

Sr. Lectr. (Agric. E.).  
Dakyns, A. L., M.A. Ox.

Lectr. (Pub. Administn.).  
Jewkes, J., M.Com. (Com.) Lectr.

Roberts, S. G., B.Com.  
Asst. Lectr.

Campbell, C. D., M.A.  
(Admin.) Asst. Lectr.

Collier, Frances, M.A. Res. Asst.  
Bruce, W., B.Sc. Lond.

Staff Tutor (Tutorial Classes).

*Education*

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M.Ed. Prof.

Findlay, J. J., M.A. Ox., Ph.D.  
Leip., M.Ed. Hon. Prof.

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M.Ed. (H.).

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M.A. Dub. (H.).

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Start, Laura E., M.Ed.

Eggar, Margaret E., N.F.U.  
Hindshaw, Winifred, M.A., M.Ed.

Helm, J. H., B.A., LL.B. Camb.  
Ewing, Irene R. (Teacher of the

Deaf) E. Ll. Jones Lectr.  
Conway, Gladys, B.A. Liv. (Con-

tinuation School E.).  
Vaughan, Frances M., M.A.

N.U.I.  
Clarke, Winifrid S.

Jackson, Rev. S. F., M.A. Manc.  
and Liv., Litt.D. Liv.

Oppenheimer, Mary (Handwork  
and Drawing).

Keighley, T., Mus.D. (El. E.—  
Singing).

Borthwick, Phyllis M., M.Sc.  
Bris., B.Sc. Lond.

Ewing, A. W. G., M.A. Edin.  
Asst. Lectr. (Speech Training).

2 Medical Officers and 2 Instrs.  
for Elem. Tr. Dept.

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*Electro-Technics*

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E. S. Massey Prof.

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Higham, J., M.Sc. Lectr.

*Engineering*, v. also Tech.

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M.I.Mech.E. Beyer Prof.

Mason, C. M., M.Sc. Clifton Lectr.

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Baker, H. W., M.Sc.

Mucklow, G. F., M.Sc.  
Cornish, R. J., B.Sc.

Frith, J., M.Sc., M.I.E.E.  
Special Lectr.

Allen, Jack, M.Sc. Asst. Lectr.

*English Language and Literature*

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Manc., Litt.D. Melb.

Smith Prof. (E. Lang.).

Charlton, H. B., M.A. Leeds and  
Manc. Taylor Prof. (E. Lit.).

Herford, C. H., Litt.D. Camb. and  
Manc., Ph.D. Innsb., F.B.A.

Hon. Prof.

Wright, J. D., M.A. Senr. Lectr.  
Harmer, Florence E., M.A. Camb.,

B.A. Lond. Lectr.  
Waller, R. D., M.A. Asst. Lectr.

Zamick, M., M.A. St. And.  
Asst. Lectr.

*French Language and Lit.*

Kastner, L. E., M.A. Camb. and  
Manc., Litt.D. Camb. Prof.

Orr, J., M.A. Ox. and Manc.,  
B.Litt. Ox., L. ès L. Paris

Prof. (F. Language).  
Marks, J., M.A. Lectr.



Stanley, Gertrude K., M.Sc. Lond.,  
B.Sc. Ox. Asst. Lectr.  
Swirles, Bertha, B.A. Camb.  
Asst. Lectr.

Withington, Doris, M.Sc. Asst.

*Medicine, v. infra*

*Metallurgy and Metallography,*  
v. also Tech.

Thompson, F. C., M.Sc., B.Sc.  
Lond., D.Met. Sheff. Prof.

O'Neill, H., M.Met. Sheff., D.Sc.  
Lectr.

Jones, E. O., B.Sc. Lond.,  
A.R.S.M. Lectr.

Cuthbertson, J. W., M.Sc.  
Asst. Lectr.

*Military Organization and  
Tactics, v. also Hist.*

MacNaught, Capt. G. S., D.S.O.  
(H.).

*Mining, v. Geol.*

*Music, v. also Physics (Acoustics)*

Keighley, T., Mus.D. Lectr.

Wilcock, A. W., Mus.D. Lectr.

*Palæography*

Tyson, M., M.A., Ph.D. Reader.

*Philology, v. Classics, German*

*Philosophy, v. also Psych.,  
Theol.*

Stocks, J. L., D.S.O., M.A. Ox. and  
Manc. Sir S. Hall Prof.

Alexander, S., M.A. Ox. and Manc.,  
Litt.D. Manc. and Liv., LL.D.

Birm. and St. And., D.Litt.  
Ox. and Durh. Hon. Prof.

Rhees, R., M.A. Edin. Asst. Lectr.

*Philosophy of Religion* [Prof.

Moberly, W. H., D.S.O., M.A.,  
Litt.D., Vice-Chancellor.

*Physics, v. also Elec. and Tech.*

Bragg, W. L., M.A. Camb., M.Sc.,  
F.R.S., Nobel Laureate

Langworthy Prof. of P.  
and Prof. of Acoustics.

(H.) = Honorary Lectr.

Schuster, Sir Arthur, Sc.D. Camb.,  
Ph.D. Heid., D.Sc., F.R.S.

Hon. Prof.

Nuttall, J. M., D.Sc. Sen. Lectr.

James, R. W., M.A. Camb., B.Sc.  
Lond. Sen. Lectr.

Dickson, E. C. S., B.A. Camb.,  
Ph.D. Bonn. Sen. Lectr.

Bell, H., M.A. Edin. Lectr.

Brentano, J. C. M., D.Sc. Mun.  
Lectr.

Mott, N. F., B.A. Camb. (Math.  
Physics) Lectr.

Sutherland, G. A., M.A. Camb. (S.).  
Asst. Lectrs. :

Taylor, W. H., M.Sc.  
Williams, E. J., M.Sc. Wales,  
Ph.D.

*Physics, Colloid*

Henry, D. C., M.A. Camb. Lectr.

*Physiology and Histology*

Raper, H. S., C.B.E., D.Sc., M.B.,  
Ch.B. Leeds, M.Sc., F.R.S.

Brackenbury Prof.

Lamb, F. W. J. A., B.A., M.D.,  
D.P.H. Dub.

Reader in Human P.

Curtis, F. R., M.Sc., M.B., Ch.B.  
Leeds Lectr. (Exper. P.).

Ellis, R., M.B., Ch.B.  
Asst. Lectr. (Applied P.).

Ritchie, A. D., M.A. St. And.,  
B.A. Camb.

Lectr. (Physiol. Chem.).

Hon. Asst. Lectrs. :

White, H. V., M.D.  
Diggle, F. H., O.B.E., F.R.C.S.

Langley, G. J., M.B.E., M.D., B.S.  
Lond.

Bramwell, J. C., M.D.  
Hon. Asst. Lectr. (Experi-

mental P.).

2 Demrs.

*Psychology* [Prof.

Pear, T. H., B.Sc. Lond., M.A.

James, H. E. O., B.A., M.Sc.  
Lectr.

(S.) = Special Lectr.

- Wyatt, Stanley, M.Sc., M.Ed. (S.).  
 Lee, A., M.A. Camb. (Psych. of Relig.). Lectr.
- Railway Law*  
 Turner, H. P., M.A., LL.M. Lectr.
- Religion*, v. Philosophy  
*Russian*  
 Trofimov, M. V., M.A. Pet. and Manc. Sir W. Mather Prof.
- Semitic Langs. and Lit.*  
 Canney, M. A., M.A. Ox. and Manc. (Prof. of Bibl. Crit.) Prof.
- Fish, T., Ph.D. Camb. Asst. Lectr.
- Spanish* [Sr. Lectr.  
 Rees, J. W., M.A. Ox., B.A. Wales  
 Collyer, A. E. Asst.
- Social Study*  
 Cashmore, Hilda, M.A. Ox.  
 Supervisor of Practical Work.
- Statistics*  
 Child, J. M., B.A. Camb., B.Sc. Lond. Lectr.
- Technology*, v. *infra*  
*Theology*, v. also Classics, Semitic Langs.  
 Lectrs. :
- Mackintosh, R., B.D. Edin., M.A., D.D. Glas. (Philos. of Rel.).  
 Wardle, W. L., M.A., B.D. Camb., D.D. Durh. (Bibl. Crit.).  
 Parsons, R. G., M.A., D.D. Ox. (Bibl. Crit.).  
 Cheetham, F. P., M.A. Camb. (Bibl. Crit.).  
 Findlay, J. A., M.A. Camb. (Bibl. Crit.).  
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 Townsend, H., M.A. (R.U.I.), D.D. Lond.
- Grieve, A. J., M.A. Ox., D.D. Lond. Lectr. (Early Church Hist.).  
*Veterinary*, v. *infra*, Bacteriology and Preventive Med.
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 Dunkerly, J. S., B.Sc. Lond., D.Sc., Ph.D. Glas., M.Sc.  
 Miles, H. W., M.Sc. Bris. (Agric. Ent.). Lectr.  
 Wright, W. Rees, M.Sc. Wales Asst. Lectr.
- Lowe, Esther, M.Sc. Liv. Asst. Lectr.
- MacGill, Elsie I., M.Sc. Research Asst. (Entom.).
- Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)  
*Anæsthetics* [Lectr.  
 Hill, E. F., M.B., Ch.B., M.R.C.S.  
*Bacteriology*, v. *infra*, Bact. and Prev. Med.
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 White, C. P., M.A., M.D. Camb., F.R.C.S. Dir. of Lab. and (H.)
- Children, Diseases of* [Lectr.  
 Lapage, C. P., M.D., F.R.C.P.
- Children, Surgical Diseases of*  
 ..... Lectr.
- Clinical Investigations*  
 Wilkinson, J. F., M.Sc., M.B., Ch.B., Ph.D.  
 Lectr. and Dir. of the Lab.
- Dermatology*  
 Lancashire, G. H., M.D. Bruss., M.R.C.S., L.R.C.P. Lectr.  
 Dyson, W., O.B.E., M.D. (also Hon. Spl. Lectr. in Path. of the Skin) Asst. Lectr.
- Savatard, L., L.S.A. Lond. Asst. Lectr.
- Ear, Throat, and Nose, Diseases of the*  
 Sewell, D. L., M.B., B.S. Lond.  
 \* (Ear) Lectr.

- Wrigley, F. G., M.D. (Throat and Nose) Lectr.
- Forensic Med.*
- Anderton, W. B., M.B. Lond., M.R.C.S., L.R.C.P. Lectr.
- Hygiene*, v. Bact. and Prev. Med.
- Infectious Diseases*
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- Materia Med. and Therap.*
- ..... Leech Prof.
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- Reader (Mat. Med. and Therap.).
- Rawsthorne, F., L.D.S. Eng. (Dental Mat. Med.) Lectr.
- Medicine, Clinical*
- Ramsbottom, A., M.D., D.P.H., F.R.C.P. Prof.
- Melland, C. H., M.D. Lond., B.Sc., F.R.C.P. (also Lectr. in M. for Dent. Students) Lectr.
- Leech, E. B., M.D. Camb., F.R.C.P. Lectr.
- Core, D. E., M.D. (also in *Neurology*) Lectr.
- Oliver, T. H., M.D. (also in *Systematic M.*) Lectr.
- Medicine, Systematic*, v. also Med., Clin.
- Tylecote, F. E., M.D., D.P.H., F.R.C.P. Prof.
- Mental Diseases*
- Blair, D., M.A., M.D. Glas. Lectr.
- Cormac, H. D., M.B., M.S. Madr., D.P.M. Lectr.
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- Obstetrics and Gynaecology*
- Shaw, W. Fletcher, M.D. Prof. (C.).
- Dougal, D., M.D. Prof.
- Lacey, F. H., M.D. Hon. Lectr. (C.).
- Bride, J. W., M.D. Lond. and Manc. Lectr.
- Bailey, K. V., M.D. Asst. Lectr.
- Hunter, J. W. A., M.B., Ch.B. Demr.
- Ophthalmology*
- McNabb, H. H., M.D. Lectr. (C.).
- Wharton, J., M.A., M.D. Camb. (C.).
- Bride, T. M., M.D. (C.).
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- Hon. Clin. Lectrs. :
- Ollerenshaw, R., M.D., F.R.C.S.
- Platt, H., M.B., M.S. Lond., M.D., F.R.C.S.
- Pathology and Path. Anat.*, v. also Derm.
- Dunn, J. S., M.A., M.D. Glas. Procter Prof.
- Loveday, G. E., M.A., M.B., B.Ch. Camb. (Clin. P.) Lectr.
- Susman, W., B.A., M.D. Ont. (Morb. Anat.) Lectr.
- Sheehan, H. L., M.B., Ch.B. Asst. Lectr.
- Kershaw, J., L.D.S. Demr.
- Whitehead, R., B.Sc., M.B., Ch.B. Demr.
- Dyson, W., M.D. Hon. S. Lectr. (Skin P.).
- Pharmaceutics*
- Grier, J., M.Sc. Sen. Lectr.
- Brindle, H., B.Sc. Lond. Lectr.
- Roberts, Ivy, M.Sc. Asst. Lectr.
- Duncan, Jeannette, B.Sc. Asst. Lectr.
- Fowlds, W. L., B.Sc. Demr.
- Boardman, L. H., Ph.C. Demr.
- 2 Demrs.
- Pharmacy*, etc., v. Mat. Med.
- Radiology* [Lectr.
- Twining, E. W., M.R.C.S., L.R.C.P.
- Surgery, Clinical*, v. also Children's Diseases
- Burgess, A. H., M.B., M.Sc., F.R.C.S. Prof.
- Surgery, Operative*
- Hughes, E. E., M.B., Ch.M. Lectr.
- Southam, A. H., M.A., M.D., M.Ch. Ox., F.R.C.S. Lectr.

- Roberts, C., M.B., B.S. Lond.,  
F.R.C.S. Lectr. and Asst.
- Buckley, J. P., M.A., M.D. Camb.,  
M.S. Lond., F.R.C.S. Lectr.
- Rayner, H. H., M.B., Ch.B.,  
F.R.C.S. Lectr.
- Surgery, Systematic*
- Telford, E. D., M.A., Ch.B. Camb.,  
M.Sc., F.R.C.S. Prof.
- Hey, W. H., M.B., Ch.B., F.R.C.S.  
Lectr. and Asst.
- Surgical Pathology*
- Ray, J. H., M.B., Ch.M., F.R.C.S.  
Reader.
- Wrigley, P. R., F.R.C.S. Lectr.
- Wright, G., M.B., Ch.B. Edin.,  
F.R.C.S. Lectr.
- Therapeutics, v. Mat. Med.*
- Tuberculosis*
- Sutherland, D. P., M.B., B.S.  
Lond. Hon. (C.).
- Vaccination* [Lectr.]
- Chisholm, Catherine, B.A., M.D.
- Venereal Diseases*
- Instrs. (C.):
- Macalpine, J. B., M.B., Ch.B.,  
F.R.C.S.
- Reid, W. J. S., M.A., M.D. Aberd.
- Whitehead, Gordon, M.B., Ch.B.
- Wilson, A., F.R.C.S.
- Gibson, R., M.D., Ch.B. Edin.
- Dyson, W., O.B.E., M.D.
- Byrd, Elizabeth C., M.Sc., M.B.,  
Ch.B.
- Lacey, F. H., M.D.
- Addis, W. R., M.B., Ch.B.
- Dentistry, v. also Med., Clin.*
- Lectrs.:
- Hutchinson, A. C. W., M.D.S.,  
L.D.S. (Mechanics and Pros-  
thetics).
- Houghton, E., L.D.S. Eng. (Opera-  
tive Surgery).
- Buckley, J. P., M.A. Camb., M.D.,  
M.S. Lond., F.R.C.S. (Re-  
gional Surg.).
- Thompson, Prof. F. C., B.Sc. Lond.,  
D.Met. Shef., M.Sc. (v. Met.)
- Hughes, T. Martin, M.R.C.S.,  
L.R.C.P., L.D.S. Eng. (Ortho-  
dontics).
- Simms, H., L.D.S. Eng., M.D.  
(Path. and Surg.).
- Melland, C. H., M.D. Lond., B.Sc.,  
F.R.C.P. (Med.).
- Rawsthorne, F., L.D.S. (Mat. Med.).
- Dunn, Prof. J. S., M.A., M.D.  
Glas. (v. Path.) (Bacteriology).
- Gibson, S. K., L.D.S. (Histol.)  
Demr.
- Bacteriology and Preventive  
Medicine (v. also Path.)**
- Maitland, H. B., M.D. Tor.,  
M.R.C.S., L.R.C.P. (Prof. of  
B. and Dir. of P.H. Lab.)  
Prof.
- Downie, A. W., M.B., Ch.B. Aberd.  
Lectr.
- Heap, H., M.Sc. (San. and Bact.  
Chem.) Lectr.
- Coleman, G. S., D.Sc. (Eng.) Lond.  
(San. Eng.) Lectr.
- McGaughey, C. A., M.R.C.V.S.,  
D.V.S.M.  
Asst. Lectr. (Bact.).
- Gilmore, E. St. G., B.Sc., M.B.,  
Ch.B. Demr. in Bact.
- Shortt, W. M., M.Sc.  
Demr. in Chem.
- Factory Hygiene*
- Legge, Sir Thomas, M.A., M.D.  
Ox., D.P.H. Camb. Lectr.
- Public Health Administration*
- Butterworth, J. J., M.D., D.P.H.  
Lectr. in Hygiene and A.
- Brindley, A. E., M.D. Lond., B.Sc.,  
D.P.H. Lectr.
- Sanitary Engineering, v. Tech-  
nology*
- School Hygiene* [Lectr.]
- Young, M., M.D. Edin., D.P.H.

*Vet. Hygiene*

Woods, W., F.R.C.V.S. Lectr.

*Vital Statistics*

Scholefield, E. H., M.B., Ch.B. Ox.,  
M.R.C.S., L.R.C.P. Lond.,  
D.P.H. Lectr.

*Technology*

Jones, B. Mouat, D.S.O., M.A. Ox.,  
Principal of the College of  
Tech. and Dean of the Faculty.

*Building Construction*

M'Kay, W. B. Lectr.

*Chemistry, Applied*

Kenner, J., Ph.D. Heidel., D.Sc.  
Lond., F.R.S.  
Prof. of Technol. C.

Lectrs. :

McCulloch, A., M.Sc. Tech. (Fuels).  
Wood, J. K., D.Sc., F.I.C.  
(Physical C.).

Radcliffe, L. G., M.Sc. Tech., F.I.C.  
Walker, T. K., M.Sc., Ph.D., F.I.C.  
Howell, O. R., B.Sc., Ph.D. Wales  
and Camb.

Cardwell, D., M.Sc., B.Com.  
Spl. Lectr.

Asst. Lectrs. :

Hibbert, Eva, M.Sc. Tech.  
Craven, May B., M.Sc. Tech.  
Hancock, A., M.Sc. Tech., F.I.C.  
Chadwick, Marion, M.Sc. Tech.  
8 Demrs.

*Dyeing, Bleaching, and Printing  
and Paper Manuf.*

Scholefield, F., B.Sc. Leeds and  
Lond., M.Sc., F.I.C. Lectr.  
Mason, F. A., M.A. Ox., Ph.D.  
Mun. Lectr. (Tinc. Chem.).  
Bailey, F. W.

Lectr. (Paper-making).

*Engineering, Electrical*

Walker, Miles, M.A. Camb., D.Sc.  
Lond. Prof.

Lectrs. :

Langton, J. L., M.Sc.  
Moore, A. E., M.Sc. Tech.  
Clayton, A. E., D.Sc. (Eng.) Lond.

Asst. Lectrs.:

Glynne, A., M.A. Camb.  
Freeman, G. F., M.Sc. (Eng.) Lond.  
Hanney, E. A., M.Eng. Sheff.  
Bentley, A. K. Demr.

*Engineering, Mechanical*

Smith, Dempster, M.B.E., M.Sc.  
Tech. Prof.

Lectrs. :

Boswall, R. O., B.Sc. (Eng.) Lond.,  
M.Sc. Tech.  
Anderson, R. M., M.Sc. Tech.  
Threlfall, H., M.Sc. Tech.  
Ferguson, R. M., M.Sc.  
Bevan, T., M.Sc. Tech.

Asst. Lectrs. :

Brierley, J. C., M.Sc. Tech. (Eng.  
Drawing).  
Coe, N. W., M.Sc. Tech.  
Tams, B. J., B.Sc. (Eng.) Lond.

Asst. Lectrs. & Demrs. :

Carrington, H., D.Sc., M.Sc. Tech.  
Oakden, J. C., M.A. Camb., M.Sc.  
Tech.

*Engineering, Municipal and  
Sanitary*

Coleman, G. S., D.Sc. (Eng.)  
Lond. Lectr.  
Johnson, Albert, B.Sc. Durh.  
Lectr.  
Chadwick, A. S. Asst. Lectr.  
Whitson, M. T. B., B.Sc. Edin.  
Asst. Lectr.

*Industrial Administration*

Bowie, J. A., M.A., D.Litt. Aberd.  
Lectr.  
Garden, D. J., M.A., B.Com.  
Aberd. Lectr.  
Yates, M. L., M.Sc. Tech. Lectr.

*Languages (Modern)*

Grundy, W. H. R., B.A., LL.B.  
Lectr.  
Easton, R. S., B.A. Asst. Lectr.

*Mathematics*

Prescott, J., M.A., D.Sc. Lectr.  
Bowman, F., M.A. Camb. Lectr.  
Lowery, H. V., M.A. Camb. Lectr.

## Asst. Lectrs. :

Barratt, W. S., A.R.C.S.I., A.I.C.  
Tilsley, H., B.Sc. (Eng.) Lond.

*Metallurgy and Assaying*

Handford, C., M.Met. Shef. Lectr.  
Mohn, G., M.Sc.Tech. Demr.

*Mining*

[Lectr.  
Williams, N. T., B.Sc. Wales

*Physics*

Lowery, H., M.Sc., Ph.D. Lond.,  
M.Ed. Leeds

Lectr. and Hd. of Dept.

Adamson, A., M.Sc.Tech., A.R.C.S.  
Lectr.

Mercer, H. N., M.A. Tor., Ph.D.  
Lond. Asst. Lectr.

Anderson, W., B.Sc. Glas., , ,

Barlow, H. S., M.Sc. Demr.

*Printing and Photographic Tech.*

Gamble, C. W., O.B.E., M.Sc.Tech.  
Lectr.

*Textile Manufacture*

Morton, W. E., M.Sc.Tech. Prof.  
Winterbottom, J., M.Sc.Tech.

(Spinning) Lectr.

Hanton, W. A., M.Sc.Tech. (Weav-  
ing and T. Engin.) Lectr.

Booth, J. H., B.Com.  
Spl. Lectr. (Yarn and  
Cloth Markets).

Dust, Emily R. (Design) Lectr.

## Asst. Lectrs. :

Essam, J., B.Sc.Tech. (Tex. Ind.).

Bennett, G. A., B.Sc.Tech. (Weav-  
ing).

Riley, A., B.Sc. (T. Engin.).

Spibey, H., M.Sc. Tech. (Spinning).

## Extra-Mural Department

Director of Extra-Mural Studies—  
H. P. Turner, M.A., LL.M.

## ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY became connected with the Univ. of Manchester in 1905 in the Fac. of Techn., the greater part of the work of which is conducted in the College, whose Principal is Dean. The work of the College includes advanced study and research in the subjects specified above and hydraulic experimental work, motor-car engineering, and india-rubber technology. For early history, see *Year Book* for 1929.

## COLLEGES recognized for External Lectures in Theology :

BAPTIST COLLEGE, EGERTON HALL, HARTLEY PRIMITIVE METHODIST COLLEGE, MORAVIAN COLLEGE, FAIRFIELD, UNITARIAN COLLEGE, and UNITED METHODIST COLLEGE at Manchester; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range; WESLEYAN COLLEGE, Didsbury.

Recognized for instruction in Maths., Physics, Chem., and Biol. up to Intern. standard for B.Sc. and B.Sc.Tech.: the HARRIS INSTITUTE, Preston.

For third year of B.Sc.Tech. course in Mining: the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

## GENERAL INFORMATION

The Victoria University of Manchester was reconstituted by Royal Charter in 1903 and Owens Coll. incorporated with it by Act of Parl. in 1904. For early history, see *Year Book* for 1929.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situated in the city. The Departments of Bacteriology and Preventive Medicine and Pathology are  $\frac{1}{4}$  mile distant,

adjoining principal hospitals. The athletic ground (30 acres) is at Fallowfield, about  $1\frac{1}{2}$  miles distant.

**LIBRARIES.** The main (Christie) library (over 227,000 vols.) includes the private collections of Profs. Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Medical Society's and the Radford Library (60,000 vols.) are housed in the Med. School, and available for students. The John Rylands (310,000 vols.) includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (100,000 vols.) has valuable mediæval MSS. and printed books of 17th and 18th centuries and a collection of vols. dealing with local history. The Municipal Reference Library (255,000 vols.) is valuable for more recent books and periodicals, and in connexion with it a Technical and Science Library (40,000 vols.) has recently been formed.

**LABORATORIES, ETC.** Ample equipment for advanced study and research in all departments; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany, Radio-activity, Ionization of Gases, Colloids, and Cancer. The Manchester *Museum*, forming part of the Univ. buildings, and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol.; it is also used for systematic instruction of Elem. school children. Available for clinical instruction are 4 general *Hospitals*, 1 Dental and 7 other special hospis., including the Christie Cancer Pavilion. The Howard Estate *Observatory* in the Peak District is for investigation of the Upper Atmosphere.

**FACULTIES.** (1) Arts [including School of Architecture]; (2) Science; (3) Law; (4) Medicine [including Departments of Dental Science, Pharmaceutics, and Bacteriology and Preventive Medicine and Pub. Health]; (5) Music; (6) Commerce and Administration [including Social Study]; (7) Theology; (8) Technology (provided by the Municipal College of Technology); (9) Education [training for work in Secondary, Elementary, and Day Continuation Schools, in Schools for the Deaf, and with Young Children.] Deans of Faculties: (1) Prof. Stocks (Philosophy); (2) Prof. Thompson (Metallurgy); (3) Prof. Eastwood; (4) Prof. Raper; (5) Dr. Keighley; (6) Prof. Daniels; (7) Rt. Rev. Dr. R. G. Parsons; (8) Principal B. Mouat Jones; (9) Prof. Bompas Smith.

**MATRICULATION.** See Appendix XX.

**INDIAN STUDENTS.** Adviser, J. K. Wood, D.Sc. Applications from Indian students for registration should be received, with references as to character and educational qualifications, as soon as possible after May 1 and not later than July 20.

**DEGREE COURSES.** 3 yrs. (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc., LL.B., Mus.B., B.A. (Com.), B.A. (Admin.), B.D. (after Intern. courses in Arts), B.Sc.Tech.; 5 yrs.—B.A. (Hons. in Archit.), B.D.S.; 6 yrs.—M.B., Ch.B. The B.A. (Com.) and B.A. (Admin.) courses can be completed by attendance on evening lectures.

Hons. students of mod. foreign langs. may count attendance on approved courses for a term at a foreign Univ. as equivalent to attendance at Manc.

Minimum attendance in the Univ. for graduation—3 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

**HIGHER DEGREES.** Open to Bachelors of 1 yr. standing—M.A., M.Sc. (2 yrs. if graduates of other Faculties), Ch.M., M.D., M.D.S., M.A. (Com.), M.A.

(Admin.), M.Sc.Tech.; 2 yrs.—LL.M., M.Ed.; 4 yrs.—D.Sc., LL.D., Mus.D., D.D. Open to Masters or Doctors of Philosophy of the Univ. only: Litt.D.

Open to graduates of other approved Univs. through research in Manc. during 2 (non-graduates 3) yrs.—M.A., M.Sc., LL.M., M.A. (Com.), M.A. (Admin.), M.Sc.Tech., M.Ed. (open only to graduates). Graduates of other approved Univs. of 4 yrs.' (D.D. 6 yrs.) standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs. in study or research in Manc. may qualify for the D.Sc., LL.D., D.D.

The Ph.D. differs from the Litt.D. and D.Sc. in requiring a definite course of study, and is of a lower standard, though higher than the M.A., M.Sc., and M.Sc.Tech. (v. p. 18).

**DIPLOMAS.** Geog. (grads.), 1 yr. course; D.V.S.M., open to M.R.C.V.S. only, 12 mos.; Psych. Med. 1 yr., including 2 terms at the Univ.; D.P.H. 1 yr.; Teacher's (grads.), 1 yr.; L.D.S., 4 yrs.; Dp. Bact. (1 yr. post-grad.); Social Study (2 yrs.; approved grads. and holders of Certif. in Pub. Admin., 1 yr.).

**CERTIFICATES.** Engin., 3 yrs.' course; Applied Chem., 3 yrs.; Archit., 3 yrs.; Mining; Factory or School Hygiene (subsequent to obtaining D.P.H.); Higher Commercial, 2 yrs. (grads. 1 yr.); Public Administration, 2 yrs; Theol., 3 yrs.; Biblical Knowledge, 1 yr.; Tech. (Assoc. Coll. Tech.), 3 yrs.; Tech. (Distinction), 1 yr. after Cert. in Tech.; Photog. Tech., 2 yrs.; Indust. Admin., 1 yr. (grads. or holders of Cert. in Tech.). Candidates for certificates are required, before entering on the course, to pass or obtain exemption from an entrance examn.

Certif. in Mining and the B.Sc.Tech. in Mining are accepted by Govt. in lieu of 2 out of 5 yrs.' practical experience for Mine Manager's Certif.

**SPECIAL COURSES on Tuberculosis for Med. and Vet. practrs.**

**SCHOLARSHIPS, ETC., FOR GRADUATES.** A considerable number are offered every year by the Univ., most of them reserved for its own graduates, but some—in Anatomy, £150; Chemistry, £100; Economics, £100 and £90; Engineering, two of £200 each; Botany or Zoology, £200; Diseases of Children, £100; History, £50; Local Govt., £50; Physics, £175; Physiology, £90; Prev. Med., £300; Mech. and San. Engin. or Bact. and Preventive Medicine, £150—are open to foreign students; others—in Cotton Industry, £80; History, £50—are open to British subjects who have graduated at other Univs. Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded.

**FEES.** Matricn., £2. Tuition, per session, including Students' Union and Athletic Union fees: for B.A. course, 30 gs. (Hons. in Archit., first 3 yrs. 41 gs. per session, 4th and 5th yrs. 28 gs. per session); B.Sc., 30 to 45 gs.; M.B., Ch.B. (5 sessions), 150 gs., *plus* Hospl. fees, 77 gs.; LL.B. (3 sessions), 40 gs.; B.D., about 15 gs. (*plus* Registration fee of 3 gs. per session); B.A. (Com.), B.A. (Admin.), 20 gs. to 24 gs.; Mus.B., about 20 gs.; B.D.S., 94½ gs., *plus* Hospl. fees, 175 gs.; L.D.S., 84½ gs., *plus* Hospl. fees, 135 gs.; B.Sc. Tech., £40-£60; Teacher's Dipl., £35. Examn. fees: Med., 32 gs., others (Interm. and Final) for first degrees about 6 gs. (B.Sc., 4 to 5 gs.). Graduation fees, 8 gs. (Doctorate 5 gs., except M.D.; 9 gs., Mus.D., 8 gs., Ph.D., £5).

Research fees, 7 to 10 gs. per session in Arts, Commerce, and Law; Educn., 4 gs.; higher fees for science students.

**HOSTELS.** For men: Hulme Hall (Warden), £60 to £100 (*for 25 weeks*); Dalton Hall (Principal), £108 (*for 31 weeks*); St. Anselm's Hall (Warden),

£80 (for 30 weeks); Lancashire Independent College (Principal), £81 (full Univ. terms); Unitarian College (Principal), £90 (full Univ. terms). For women (122): Ashburne Hall (Warden), 64 to 70 gs.; Lees Hall (Warden) (both under Ashburne Hall Delegacy); Langdale Hall (Warden), chiefly for women training students, whose fees are £36, private students £70; Ellis Llwyd Jones Hall (Warden), special hostel for students in training as teachers of the deaf, £70; St. Gabriel's Hall (Warden) (for Catholic women students), £55 to £65.

ALL PAST AND PRESENT MEMBERS of the Univ. are eligible for membership of the "Old Owensian Assocn.," which publishes periodically a register of members with occupations and addresses and a *Journal* (quarterly).

ADULT EDUCATION. The Committee for the organization of the Extramural work of the Univ. and the Joint Committee for Tutorial Classes are responsible for the provision of facilities for Adult Education at the Univ. itself, and at other Centres. Public Lectures, Univ. Extension Courses, Tutorial Classes for Workpeople, and other Classes for adult students are arranged, and Tutors and Lecturers are appointed.

PUBLICATIONS. (1) *Periodical: Calendar* (Sept.), 3s.; *Prospectus of Advanced Studies*; *Examn. Papers*, 9d. to 1s. 6d. a set, by Faculties. *The French Quarterly*, 3s.; *Bulletin of John Rylands Library*; *Technology* (pub. at Coll. of Tech.); *Journal of Manc. Egyptian and Orient. Soc.*; Pubns. of Chetham Society, Manchester; Pubns. of Brit. Soc. of Franciscan Studies. Students' Pubns.: *The Serpent* (magazine), *The Circle* (Literary), *Science Fed. Journal*, *Medical School Gazette*. Departmental Prospectuses (April-May). (2) *The Victoria University of Manchester*; a short historical and descriptive account. The Univ. Press, 1926.

*Histories*: "The Owens College: its Foundation and Growth, and Connexion with the Victoria Univ.," by Joseph Thompson. Manchester, J. E. Cornish, 1886. "The Owens College," by P. J. Cornish. Manchester, J. E. Cornish, 1900.

## THE YEAR 1928-29

GRANTS. Cheshire C.C. increased to £1250. New Grant: Preston, £100.

BENEFACTIONS. Bequests: £10,000 from Robert Ottley for development of higher commercial education; £10,000 from Lady Durning-Lawrence to establish "John Benjamin Smith Fund." One-third of residuary estate of Samuel Gratrix, Junior, for general purposes. Further donation of £1500 from Messrs. Benger's Food, Ltd., for equipment of Benger Pharmacological Laboratories; £1000 from Lord Beaverbrook for furtherance of medical knowledge; two gifts of £1000 for general purposes and annual donation of £100 a year for seven years; £300 for investigation of causes and treatment of Rheumatoid Arthritis; £1000 for entrance scholarship; £111 and £90 for prizes.

DEVELOPMENTS. Dept. of Pathology transferred to new buildings adjoining Public Health Lab. Fac. of Law transferred to separate building. Institution of Lectureship in Mathematical Physics and Readership in General Therapeutics. Reinstitution of Chair of Anc. Hist. New labs. for Pharmacology.

DEATHS. Hon. Prof. Sir W. Boyd Dawkins; Prof. A. S. Peake; Prof. J. N. Farquhar; Prof. T. F. Tout; W. H. Barker; Adolph Brodsky.

RESIGNATIONS. Prof. F. M. Powicke, on appt. to Regius Chair of Mod. Hist. in Univ. of Ox.; Prof. E. A. Milne, on appt. as Rouse Ball Prof. of Maths. in Univ. of Ox.

**RETIREMENTS.** Prof. R. S. Conway (Latin); Prof. F. Craven Moore (Syst. Med.); J. Stuart Thomson (Zool.); E. L. Rhead (Metall.); D. Headridge (Dentistry).

**INTERCHANGE OF TEACHERS, ETC.** Prof. Pear lectured in Zurich. Prof. Rebora lectured in Holland under auspices of Dante Society and Univ. of Amsterdam. Prof. Calder absent in summer term on survey of anc. monuments in Asia Minor. Prof. J. W. Garner (from Illinois, U.S.A.) lectured in Univ. as representative of Carnegie Endowment for Internat. Peace.

**EXTRA-MURAL WORK.** 49 Tutorial classes, 4 Preparatory and 2 one-year classes in 32 different towns. 12 Extension courses at Univ. and various outside centres. Many lectures to teachers, to public, and to scholars of sec. schs. in Lancs. and Ches. under scheme of co-operation with respective Education Committees. Summer school held at Bangor.

**VISITS.** Annual meetings of Brit. Med. Assn., Soc. of Mech. Engineers and Soc. of Chem. Industry each held partly in Univ. buildings. Annual Conference of Society of Public Teachers of Law.

**HONORARY DEGREES.** *D.D.*—Most Rev. William Temple, Archbishop of York. *LL.D.*—Lord Colwyn, Sir Percy Z. Cox, Rt. Hon. Lord Dawson of Penn, C. H. Mayo, W. J. Mayo. *Litt.D.*—A. N. Monkhouse. *D.Sc.*—A. L. Bowley, Daniel Adamson, F. H. Carr, Sir Henry Fowler, A. D. Little, C. O. Hawthorne, E. J. Maclean, Sir Ronald Ross. *M.A.*—J. P. Bushe-Fox.

**STUDENTS.** Full-time, 2265; part-time, 399. These numbers include 466 graduates.

**DEGREES.** *D.Sc.*, 6; *Mus.D.*, 1; *M.D.*, 3; *M.D.S.*, 1; *Ph.D.*, 7; *M.A.*, 24; *M.Sc.*, 44; *LL.M.*, 1; *M.A. (Com.)*, 3; *M.A. (Admin.)*, 1; *M.Ed.*, 4; *M.Sc.Tech.*, 19; *B.A.*, 140; *B.Sc.*, 115; *LL.B.*, 14; *B.A. (Com.)*, 45; *B.A. (Admin.)*, 6; *B.D.*, 7; *M.B., Ch.B.*, 31; *B.Sc.Tech.*, 56; *Mus.B.*, 2.

## UNIVERSITY OF OXFORD

CHANCELLOR—Right Hon. EDWARD, VISCOUNT GREY, D.C.L., Hon. Fellow of Balliol College.

HIGH STEWARD—Right Hon. the EARL OF BIRKENHEAD, B.C.L., M.A., Hon. D.C.L. Merton and Wadham Colleges.

VICE-CHANCELLOR—F. HOMES DUDDEN, D.D., Master of Pembroke.

PROCTORS—L. H. D. BUXTON, M.A., Exeter ; G. N. CLARK, M.A., Oriel.

REPRESENTATIVES IN PARLIAMENT (BURGESSES OF THE UNIVERSITY)—  
LORD HUGH R. H. CECIL, M.A., Hon. D.C.L. Hertford ; Sir CHAS. W. C. OMAN, M.A., Hon. D.C.L. All Souls.

ASSESSOR OF THE CHANCELLOR'S COURT—A. E. W. HAZEL, B.C.L., M.A., Principal of Jesus.

PUBLIC ORATOR—A. B. POYNTON, M.A. Univ.

BODLEY'S LIBRARIAN—A. E. COWLEY, M.A., D.Litt. Magdalen.

KEEPER OF THE ARCHIVES—S. GIBSON, M.A. Non-C.

REGISTRAR—E. S. CRAIG, M.A. Magdalen.

SECRETARY OF FACULTIES—H. M. MARGOLIOUTH, M.A. Oriel.

ASSISTANT REGISTRAR—S. CALDWELL, M.A. Wadham.

## COLLEGES

ALL SOULS COLLEGE	<i>Warden</i>	F. W. PEMBER, D.C.L.
BALLIOL       ,,	<i>Master</i>	A. D. LINDSAY, C.B.E., M.A.
BRASENOSE     ,,	<i>Principal</i>	C. H. SAMPSON, M.A.
CHRIST CHURCH	<i>Dean</i>	H. J. WHITE, D.D.
CORPUS CHRISTI COLLEGE	<i>President</i>	P. S. ALLEN, M.A., D.Litt.
EXETER         ,,	<i>Rector</i>	R. R. MARETT, M.A., D.Sc.
HERTFORD      ,,	<i>Principal</i>	Sir WALTER R. BUCHANAN- RIDDELL, Bart., M.A.
JESUS          ,,	,,	A. E. W. HAZEL, B.C.L., M.A.
LINCOLN       ,,	<i>Rector</i>	J. A. R. MUNRO, M.A.
MAGDALEN      ,,	<i>President</i>	G. S. GORDON, M.A.
MERTON        ,,	<i>Warden</i>	T. BOWMAN, M.A.
NEW            ,,	,,	Rt. Hon. H. A. L. FISHER, M.A.
ORIEL COLLEGE	<i>Provost</i>	W. D. ROSS, M.A.
PEMBROKE COLLEGE	<i>Master</i>	F. HOMES DUDDEN, D.D.

- Engineering Science*, v. also Surveying  
 Southwell, R. V., M.A. Camb., F.R.S. Prof.  
 Moullin, E. B., M.A. Camb. Reader.  
 Binnie, A. M., M.A. Balliol Demr.  
 Belfield, V. B.A. Camb. Dept. Demr.  
*English*, v. also Anglo-Saxon, Poetry  
 Smith, D. Nichol, M.A. Edin., Hon. D.Litt. Dur., M.A. Mert. (E. Lit.). Merton Prof.  
 Wyld, H. C. K., B.Litt., M.A. Mert. (E. Lang. and Lit.) Merton Prof.  
 ..... Goldsmiths' Reader.  
 Simpson, P., M.A. Or. Reader in Eng. Text. Crit.  
 Onions, C. T., M.A., Hon. D.Litt. Magd. Reader in Eng. Phil.  
 Brett-Smith, H. F. B., M.A. C.C.C. Reader in Eng. Lit.  
 Darbishire, Miss H., M.A. Som. Lectr.  
*Forestry*, v. also Surv., Rural Ec.  
 Troup, R. S., M.A., D.Sc. St. J. (Director\*) Prof.  
 ..... Lectr. (Tropical Forest Botany).  
 Williamson, H. S., M.A. Ch. Ch. Lectr.\* (F. Law).  
 Bourne, R., M.A. Trin. Demr.  
 Glasson, A. K., M.A. Linc. Demr.  
 Lloyd, A. H., M.A. Exe. Demr.  
 Hiley, W. E., M.A. Qu. Demr.\* (Economics).  
 Steven, H. M., Hon. M.A. (Ph.D. Edin.) Lectr.\* (Silviculture).  
 Chalk, L., M.A. Univ. Demr.\* (Structure, etc. of Wood).  
 Day, W. R., B.Sc., B.A. Exe. Demr.\* (Mycol. and Path. of Trees).  
 Burt-Davy, J., Hon. M.A. (Ph.D. Camb.) Demr.\* (System. Botany).  
 Chrystal, R. N., Hon. M.A. (B.Sc. Edin.) Demr.\* (Entomology).  
 Spokes, P. S., B.Sc., M.A. Qu. Secy.  
*French*  
 Rudler, G., Dr. ès L. Paris (Fr. Lit.), M.A. All. S. Foch Prof.  
 Berthon, H. E., M.V.O., M.A. Wadh. Reader.  
 Pope, Miss M. K., M.A. Som. Reader.  
 Ewert, A., M.A. St. J. Lectr.  
 Vinaver, E., B.Litt., M.A. Linc. Lectr.  
*Genetics*, v. Zool.  
*Geography*, v. also Surv.  
 Beckett, H. O., M.A. Ball. Reader and Dir. of the School.  
 Cossar, J., M.A. Exe. Lectr.  
 MacMunn, Nora E., M.A. Soc.O.H.S. Lectr. (Regional G.).  
 Baker, J. N. L., B.Litt., M.A. Jes. Lectr.  
 Tutors :  
 Kendrew, W. G., M.A. Non-Coll.  
 Kirkaldy, J. W., M.A. Som.  
 Buxton, L. H. D., M.A. Exeter (v. Anthropol.).  
*Geology*  
 Sollas, W. J., M.A. Univ. Prof.  
 Douglas, J. A., M.A., D.Sc. Keb. Demr.  
 Bayzand, C. J., M.A. Non-Coll. Demr.  
 Sandford, K. S., M.A., D.Phil. Univ. Demr.  
*Geometry* [Savilian Prof.  
 Hardy, G. H., M.A. New Coll.  
*German* [Taylor Prof.  
 Fiedler, H. G., M.V.O., M.A. Qu. (G. Lang. and Lit.)  
 Montgomery, M., B.Litt., M.A. Linc. Reader.  
 Bostock, J. K., B.Litt., M.A. Wadham Lectr.

*Greek, Byzantine and Modern,  
Lang. and Lit.*

Dawkins, R. M., M.A. Exe.  
Bywater & Sotheby Prof.  
*Greek and Latin Lit.*

Lectrs. :

Bailey, C., M.A. Ball.  
Hall, F. W., M.A. St. J.  
Powell, J. U., M.A. St. J.  
Barber, E. A., M.A. Exe.  
Denniston, J. D., M.A. Hert.

*Greek Lit.*

Poynton, A. B., M.A. Univ. Lectr.  
*Hebrew, v. Orient.*

*History, American*

McElroy, R. M., M.A. Queen's  
Harold Vyvyan Harms-  
worth Prof.

*History, Ancient, v. also Archæol.*

Anderson, J. G. C., M.A. Bras.  
Camden Prof.

Myres, J. L., M.A. New Coll.  
Wykeham Prof.

Stevenson, G. H., M.A. Univ.  
Lectr.

Collingwood, R. G., M.A. Pemb.  
Lectr.

Last, H. M., M.A. St. J.  
Lectr. in Rom. Hist.

Parker, H. M. D., M.A. Magd.  
Lectr. in Rom. Hist.

Macgregor, D. C., M.A. Ball.  
Lectr. in Greek Hist.

*History, Colonial*

Coupland, R., M.A. All S.  
Beit Prof.

Morrell, W. P., D.Phil. Ball.  
Beit Lectr.

*History, Eccl., v. Theology*

*History, Econ., v. Pol. Econ.*

*History, English*

Pribram, A. F.  
Ford's Lectr. (1929).

*History, Indian*

Lovett, Sir H. Verney, K.C.S.I.,  
M.A. Worc. Reader.

*History, Military, v. Milit.*

*History, Modern, v. also Dipl.*  
Powicke, F. M., M.A. Or., Litt.D.  
Liv., F.B.A. Reg. Prof.

Oman, Sir Charles W. C., K.B.E.,  
M.A., Hon. D.C.L. All S.

Chichele Prof.

Lectrs. :

Cruttwell, C. R. M. F., M.A. Hert.  
Ady, Miss C. M., M.A. St. Hugh's.  
Clark, G. N., M.A. Or.

Jamison, Miss E. M., M.A. Marg.  
H.

Poole, A. L., M.A. St. J.  
Weaver, J. R. H., M.A. Trin.

Legg, L. G. W., M.A. New Coll.  
Feiling, K. G., M.A. Ch. Ch.

Edwards, J. G., M.A. Jesus.  
Woodward, E. Ll., M.A. New Coll.

Bell, K. N., M.A. Ball.  
Leys, K. K. M., M.A. Univ.

Hodgkin, R. H., M.A. Queen's.  
Ogg, D., M.A. New Coll.

Jones, I. D., M.A. Mert.

*Italian*

Foligno, C. C., M.A. Magd.  
Serena Prof.

Vincent, E. R. P., M.A. Ch. Ch.  
Lectr.

*Law, v. infra*

*Literature, Modern European*

Elton, O., M.A., Hon. D.Litt.,  
Corp.

Taylorian Annual Lectr., 1929.

*Logic*

[Wykeham Prof.]  
Joachim, H. H., M.A. New Coll.

*Mathematics, Pure*

Dixon, A. L., M.A. Magd.  
Waynflete Prof.

*Mathematics*

[Rouse Ball Prof.]  
Milne, E. A., M.A. Trin.

Pidduck, F. B., M.A., D.Sc. Corp.  
(Applied Maths.) Reader.

Chaundy, T. W., M.A. Ch. Ch.  
Lectr.

Nicholson, J. W., M.A. Ball. Lectr.

*Medicine, v. infra*

*Meteorology, v. Philosophy Expl.*

*Military History*

Swinton, Maj.-Gen. Sir Ernest D.,  
K.B.E., C.B., D.S.O., M.A.,  
All S. Chichele Prof.

*Mineralogy*, v. also *Crystal*.

Bowman, H. L., M.A., D.Sc.  
Magd. Waynflete Prof.  
Spiller, R. C., B.A., Non-C. Demr.

*Music* [Prof.]

Allen, Sir H. P., M.A., D.Mus. New  
Stewart, H. C., M.A., D.Mus.  
Magd.

Choragus (Asst. to Prof.).

*Oriental Languages*, v. *infra**Palæography*

Lowe, E. A., M.A., C.C.C. Reader.

*Papyrology*

Hunt, A. S., M.A., D.Litt. Qu. Prof.

*Philology, Comparative* [Prof.]

Braunholtz, G. E. K., M.A. Worc.

*Philosophy*

## Lectrs.:

Carritt, E. F., M.A. Univ.  
Joseph, H. W. B., M.A. New Coll.  
Collingwood, R. G., M.A. Pemb.  
Ross, W. D., M.A. Or.  
Price, H. H., B.Sc., M.A. Trin.  
Mure, G. R. G., M.A. Mert.

*Philosophy, Expl.* [Lee's Prof.]

Lindemann, F. A., M.A. Ch. Ch.  
Griffith, I. O., M.A. B.N.C. Demr.  
Dobson, G. M. B., M.A., D.Sc. Linc.  
Reader (*Meteorology*) & Demr.

*Philosophy, Mental*, v. also*Logic*

Brown, Wm., D.M. Ch. Ch.  
Wilde Reader.

*Philosophy, Moral, & Metaphys.*

Smith, J. A., M.A. Magd.  
Waynflete Prof.  
Mitchell, Sir P. C., M.A., D.Sc.  
Ch. Ch.  
Herbert Spencer Lectr. (1930).

*Philos., Moral*

Prichard, H. A., M.A. C.C.C.  
White's Prof.

*Philos., Natural*

Love, A. E. H., M.A., D.Sc. Qu.  
Sedleian Prof.  
[Wykeham Prof.]

*Physics*

Townsend, J. S. E., M.A. New Coll.  
Demrs.:

Lattey, R. T., B.Sc., M.A. Trin.  
Gill, E. W. B., B.Sc., M.A. Mert.  
Morrell, J. H., M.A. Magd.  
Biggs, H. F., M.A. Trin.  
McCallum, S. P., M.A., D.Phil.  
New Coll.

Keeley, T. C., M.A. Wad.  
Huxley, L. G. H., B.A. New Coll.  
Dept.

*Physiology*, v. also *Medicine*

Sherrington, Sir Charles S., O.M.,  
G.B.E., M.A., Hon. D.Sc.  
Magd. Waynflete Prof.

Douglas, C. G., B.Sc., D.M. St. J.  
Demr.

Liddell, E. G. T., B.M., M.A.  
Trin. Demr.

Carleton, H. M., B.Sc., M.A.,  
D.Phil. New Coll. Demr.

Cooper, Sybil, M.A. St. Hild.  
Dept. Demr.

Creed, R. S., B.M., M.A. New Coll.  
Dept. Demr.

*Poetry*

de Sélincourt, E., M.A., D.Litt. [Prof.]

*Political Econ.*

Macgregor, D. H., M.A. All S.  
Drummond Prof.

Lipson, E., M.A., New Coll. (Ec.  
Hist.) Reader.

Harrod, H. R. F., M.A. Ch. Ch.  
Lectr.

Hargreaves, E. L., M.A. Or. Lectr.

*Political Theory and Institns.*

Adams, W. G. S., M.A. All S.  
Gladstone Prof.

Butler, Miss C. V., M.A., O.H.S.  
(Mod. Pol. Organ.) Lectr.

*Religion*, v. also *Theology*

Matthews, W. R., D.D. Lond.  
Wilde Lectr. (Nat. & Comp. R.).

*Romance Lang.*

[Prof.]  
Waters, E. G. R., M.A. Trin.

*Rural Economy*, v. *infra*  
*Slavonic Studies*  
 ..... Lectr.

*Spanish*  
 deMadariaga, S., M.A. Exe.  
 King Alfonso Prof.  
 Kolkhorst, G. A., M.A. Exe. Lectr.  
 Guillén, H., D.Lit. Madr. Lectr.

*Surveying* (for Engin., Rural Ec.,  
 Forestry, Geog. Students, and  
 Trop. Admin. Services probrs.).  
 Tandy, Lt.-Col. M. O., D.S.O.,  
 O.B.E., M.A. Instr.

*Thermodynamics* [Reader.  
 Egerton, A. C. G., M.A. Ball.

*Zoology and Comp. Anat.*, v. also  
 Rural Econ.  
 Goodrich, E. S., M.A., D.Sc. Mert.  
 Linacre Prof.  
 Poulton, E. B., M.A., D.Sc. Jes.  
 Hope Prof.

Demrs. :  
 de Beer, G. R., B.Sc., M.A. Mert.  
 Jenkinson Lectr. in  
 Comp. and Exper.  
*Embry.*

Elton, C. S., M.A. New Coll.  
 Tucker, B. W., M.A. Magd.  
 Baker, J. R., M.A., D.Phil. New  
 Coll.

Law

*Byzantine*  
 Lawson, F. H., M.A. Corp. Lectr.

*Civil* [Reg. Prof.  
 De Zulueta, F., D.C.L. All S.

*Criminal, and Evidence*  
 Stallybrass, W. T. S., M.A. B.N.C.  
 Reader.

*English*  
 Holdsworth, Sir W. S., K.C.,  
 D.C.L. All S. Vinerian Prof.  
 Hazel, A. E. W., C.B.E., B.C.L.,  
 M.A. Jes. All Souls Reader.

*Equity*  
 Hanbury, H. G., B.C.L., M.A.  
 Linc. Lectr.

Indian

Woodroffe, Sir John G., B.C.L.,  
 M.A. Univ. Reader.

*Internat., and Diplomacy*  
 Brierly, J. L., O.B.E., B.C.L.,  
 M.A. All S. Chichele Prof.  
 Miles, Sir John C., B.C.L., M.A.  
 Mert.  
 Lectr. in Comp. Legal Hist.

*Internat. (Private)*  
 Cheshire, G. C., D.C.L., M.A. Exe.  
 Lectr.

*Jurisprudence*  
 Allen, C. K., M.A. Univ. Prof.

*Roman* [All Souls Reader.  
 Jolowicz, H. F., M.A.

*Roman-Dutch* [Rhodes Prof.  
 Lee, R. W., D.C.L. Ball.

Medicine (for subjects of the first  
 2 yrs.—Anat., etc., v. *supra*)

*Anatomy, Morbid*  
 Gibson, A. G., D.M. Ch. Ch.  
 Reader.

*Clinical Physiology*  
 Priestley, J. G., D.M. Ch. Ch.  
 Reader.

*Medicine*  
 Buzzard, Sir E. Farquhar,  
 K.C.V.O., D.M. Magd.  
 Reg. Prof.

Gibson, A. G., D.M. Ch. Ch.  
 Litchfield Lectr.

*Ophthalmology*  
 Adams, P. E. H., B.M., M.A. Exe.  
 Margaret Ogilvie's Reader.

*Pathology*, v. also Anat. [Prof.  
 Dreyer, G., C.B.E., M.A. Linc.  
 Walker, E. W. A., D.Sc., D.M.  
 Univ., Dean of Med. Sch.  
 Reader.

Vollum, R. L., D.Phil. Linc.  
 Demr.

*Pharmacology* [Prof. & Reader.  
 Gunn, J. A., M.A. Ball.  
 MacKeith, M. H., D.M. Magd.  
 Demr.  
 Franklin, K. J., D.M. Or. Demr.

*Surgery* [Litchfield Lectr.  
Whitelocke, H. A. B., B.M., M.A.,  
M.Ch. Ch. Ch.

### Oriental Languages

#### *Arabic*

Margoliouth, D. S., M.A., D.Litt.  
New Coll. Laudian Prof.

#### *Aramaic*

[Reader.  
Stenning, J. F., C.B., M.A. Wadh.

#### *Assyriology* [Shillito Reader.

Langdon, S., M.A. Jes. Prof. &

#### *Bengali*

Thompson, E. J., M.A. .

#### *Burmese*

Rigg, A. E., M.A. Corp. Lectr.

#### *Chinese*

Soothill, W. E., M.A. Trin. Prof.

#### *Egyptology* [Prof. and Reader.

Griffith, F. Ll., M.A. Qu.

#### *Hebrew*

[Reg. Prof.  
Cooke, G. A., D.D. Ch. Ch.

Driver, G. R., M.A. Magd. (Semitic  
Phil.) Reader.

Loewe, H. M. J., M.A. Exe.  
(Rabbinic H.)

#### *Persian and Marathi*

Seddon, C. N., M.A. Ball. Lectr.

#### *Sanskrit*

[Boden Prof.  
Thomas, F. W., C.I.E., M.A., Ph.D.,  
F.B.A.

#### *Tamil and Telugu*

Roberts, S. G. Lectr.

#### *Urdu and Hindi*

Dewhurst, R. P., M.A. Ball. Lectr.

### Rural Economy

Watson, J. A. S., M.A. St. J.  
Sibthorpe Prof.

Ellis, J. C. B., M.A. Jes.  
(Physics & Chem.) Demr.

#### *Agr. Botany*

[Demr.  
Bancroft, Helen, M.A. Marg. H.

#### *Agr. Chemistry*

[Reader.  
Morison, C. G. T., M.A. Ball.  
Clarke, G. R., B.Sc., M.A. Or.  
Advisory Chemist.

*Agr. Economics*, v. also Farm  
Research Officers and Assts. in  
Institute for Research :

Bridges, A., M.A. Linc. ; Dixey,  
R. N., B.A. St. J. ; Prewett,  
F. J., M.A. Ch. Ch. ; Lee,  
J. R., B.Sc. Leeds ; Frech-  
ville, G., B.Sc., M.A. ; Skil-  
beck, D., B.A. St. J. ; Stilgoe,  
H. C., B.A. Ch. Ch. ; Upfold,  
S. J. ; Maxton, J. P. (B.Sc.,  
M.A. Glas.) ; Messer, M., B.A.  
St. J.

#### *Agr. Engineering*

Owen, B. J., M.A.  
Dir. of Research Institute.

#### *Agr. History*

Lennard, R. V., M.A. Wadh.  
Lectr.

#### *Agr. Law*

Cheshire, G. C., D.C.L., M.A.  
Exe. Lectr.

#### *Economic Botany & Zoology, etc.*

Cunliffe, N., M.A. Wadh. Demr.  
Woodward, R. C., Ph.D. Camb.  
Advisory Mycologist.

#### *Economics and History*

Amery, G. D., M.A. B.N.C. Lectr.

#### *Farm Acctoy. and Loc. Govt.*

Orwin, C. S., M.A. Ball. (Dir. of  
Inst. for Research in Agr.  
Economics) Lectr.

#### *Estate Management*

[Lectr.  
Thring, D. T., Hon. M.A. Mert.

### Theology

Lightfoot, R. H., M.A. New Coll.  
Speaker's Lectr. in Bibli-  
cal Studies.

Streeter, B. H., M.A. Qu.  
Reader in Christian Origins.  
Kirk, K. E., D.D. Trin.

Reader in Moral Theol.  
Brook, V. J. K., M.A. Linc. Lectr.  
Dodd, C. H., M.A. Univ. Lectr.  
Grensted, L. W., B.D., M.A. Univ.  
Lectr.

*Divinity* [Reg. Prof.  
Goudge, H. L., D.D. Ch. Ch.  
Williams, N. P., D.D. Ch. Ch.  
Lady Margaret Prof.  
*Eccles. History* [Reg. Prof.  
Watson, E. W., D.D. Ch. Ch.  
Pullan, L., D.D. St. J. Lectr.  
*Exegesis* [Dean Ireland's Prof.  
Turner, C. H., M.A. Magd.  
*Interpretation of Holy Script.*  
Simpson, D. C., D.D. Or.  
Oriel Prof.  
*Pastoral Theology* [Reg. Prof.  
Ottley, R. L., D.D. Ch. Ch.  
*Philos. of Christian Religion*  
Webb, C. C. J., M.A. Oriel  
Oriel Prof.  
*Septuagint* [Grinfield Lectr.  
Dodd, C. H., M.A. Univ.

Romanes Lecturer  
1930, Rt. Hon. Winston Spencer-  
Churchill, C.H., D.C.L., M.P.  
Sidney Ball Lecturer in Econ.  
1930, Sir W. H. Beveridge, K.C.B.,  
M.A.  
Sir Basil Zaharoff Lecturer  
1929, M. L. A. Terrache, D. ès L.  
Herbert Spencer Lecturer  
1930, Sir P. C. Mitchell, M.A., D.Sc.  
Halley Lecturer  
1929, Sir G. T. Walker, M.A., Sc.D.,  
F.R.S.  
University Extension  
Lecturers employed under the  
direction of the Extra-mural  
Studies Delegation (about 30).

## THE COLLEGES

ALL SOULS COLLEGE. Founded 1437. Warden—F. W. Pember, D.C.L.  
Fellows:  
Cholmondeley, F. G., M.A.  
Oman, Prof. Sir Charles W. C., M.A.,  
Hon. D.C.L., *Librarian*.  
Robertson, Sir Charles G., M.A.  
Simon, Rt. Hon. Sir John A., M.A.,  
Hon. D.C.L.  
Dawson, G. G., M.A.  
Malcolm, D. O., M.A.  
Brand, Hon. R. H., M.A.  
Craster, H. H. E., M.A., D.Litt.  
Pollard, A. F., M.A., *Sub-Warden*.  
Wilkinson, H. Spenser, M.A.  
Archibald, J. G., M.A.  
Adams, Prof. W. G. S., M.A.  
Somervell, D. B., M.A., *Dean*.  
de Zulueta, Prof. F., D.C.L.  
Woodward, E. Ll., M.A.  
Faber, G. C., M.A.  
Coupland, Prof. R., M.A.  
Curtis, L. G., M.A.  
Lee, Prof. R. W., D.C.L.  
Macgregor, Prof. D. H., M.A.  
Holdsworth, Prof. W. S., D.G.L.  
Harris, C. R. S., M.A., D.Phil.  
Chelmsford, Viscount, M.A., Hon.  
D.C.L.  
Brierly, Prof. J. L., B.C.L., M.A.  
Radcliffe, C. J., M.A.  
Headlam, Rt. Rev. A. C., D.D.  
Hancock, W. K., B.A.  
Swinton, Prof. Maj.-Gen. Sir Ernest D.,  
K.B.E., C.B., D.S.O., M.A., *Dean*.  
Blagden, J. B., M.A.  
Pares, R., B.A.  
Foster, J. G., B.A.  
Rowse, A. L., B.A.  
Makins, R. M., B.A.  
Rudler, Prof. G., M.A.  
Jones, A. H. M., B.A.  
Hudson, G. F., B.A.  
Dannreuther, D. S., B.A.  
Moon, E. P., B.A.  
Campbell, A. H., B.A., B.C.L.  
Hodson, H. V., B.A.

BALLIOL COLLEGE. Founded 1263-1268. Master—A. D. Lindsay, C.B.E.,  
M.A., LL.D.

Fellows:  
Urquhart, F. F., M.A., *Tutor (Mod.  
Hist.)*.

Hartley, Sir Harold, M.A., F.R.S.,  
*Science Tutor, Bedford Lectr.  
(Physical Chem.)*.

Bailey, C., M.A., *Classical Tutor*.  
 Merton, T. R., M.A., D.Sc., F.R.S.,  
*Prof. of Spectroscopy*.  
 Bell, K. N., M.A., *Tutor (Mod. Hist.)*.  
 Macgregor, D. C., M.A., *Classical Tutor*.  
 Ridley, M. R., M.A., *Tutor in Engl. Lit. and Tutor for Admissions*.  
 Nicholson, J. W., M.A., F.R.S., *Tutor (Maths. and Physics)*.  
 Morris, C. R., M.A., *Classical Tutor, Jowett Lecturer (Philos.)*.  
 Orwin, C. S., M.A., *Estates Bursar*.  
 Rodger, A. B., M.A., *Tutor (Economics)*.  
 Sumner, B. H., M.A., *Tutor (Mod. Hist.)*.  
 Gunn, J. A., M.A., *Prof. of Pharmacology*.  
 Mynors, R. A. B., B.A., *Classical Tutor, Librarian*.

BRASENOSE COLLEGE. Founded 1509. Principal—C. H. Sampson, M.A.

Fellows :  
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 Butler, A. J., M.A., D.Litt.  
 Wakeling, G. H., M.A., *Sr. Tutor*.  
 Stallybrass, W. T. S., M.A., *Vice-Principal, Tutor*.  
 Southwell, R. V., M.A., F.R.S., *Prof. (Engineering Science)*.  
 Barker, T. V., M.A., D.Sc.  
 Holroyd, M., M.A., *Tutor, Librarian*.  
 Anderson, J. G. C., M.A., *Prof. of Anc. Hist.*

CHRIST CHURCH. Founded 1546. Dean—Very Rev. H. J. White, D.D.  
 Canons :  
 Ottley, R. L., D.D., *Regius Prof. of Moral and Pastoral Theology*.  
 Watson, E. W., D.D., *Regius Prof. of Eccl. Hist.*  
 Cooke, G. A., D.D., *Regius Prof. of Hebrew*.  
 Shaw, Rt. Rev. E. D., D.D., *Arch-deacon of Oxford*.  
 Goudge, H. L., D.D., *Regius Prof. of Divinity*.  
 Williams, N. P., D.D., *Lady Margaret Prof. of Divinity*.

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 Payne-Smith, W. H., M.A.  
 Murray, G. G. A., M.A., D.Litt.,  
*Regius Prof. of Greek*.

Thomas, F. W., M.A., Ph.D., *Prof. of Sanskrit*.  
 Barry, F. R., M.A., *Chaplain*.  
 Galbraith, V. H., M.A., *Reader in Diplomatic*.  
 Fulton, J. S., B.A., *Tutor in Philosophy*.  
 Hardie, C. G., B.A., Jr. *Research Fellow*.  
 Duke, A. C. H., D.S.O., C.M.G., M.A.,  
*House Bursar*.  
 Tylor, T. H., M.A., B.C.L., *Tutor (Jurispr.)*.

Other Tutors and Lecturers :  
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 Murray-Rust, D. M., B.A., *Lectr. (Chem.)*.

Griffith, I. O., M.A., *Tutor*.  
 Taylor, T. W. J., M.A., *Tutor*.  
 Jeffery, R. W., M.A., *Tutor*.  
 Platnauer, M., M.A., B.Litt., *Lectr.*  
 Egeland, L., B.A., B.C.L., *Lectr.*  
 M'Kie, J. I., M.A., *Lectr.*  
 Spalding, K. J., M.A., *Research Fellow*.

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 Brett-Smith, H. F. B., M.A. (*Engl. Lit.*).  
 Amery, G. D., M.A. (*Agric.*).

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 Heaton, T. B., D.M., *Tutor, Reader in Anat.*  
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 Buzzard, Sir E. F., D.M., *Regius Prof.  
 of Medicine*.  
 Percival, Lt.-Col. Sir H. F. P., M.A.,  
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 Hollis, A. M., M.A., *Lectr. (Theol.),  
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Lecturer :  
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\*Allen, T. W., M.A., F.B.A., *Sr. Tutor, Librarian (Classics).*

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Berthon, H. E., M.A. (*French*).

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Hayter, W. G.

Somers-Cocks, J. S.

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Young, G. P.

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Pullan, L., D.D., *Tutor, Lectr. (Theol.).*

Hall, F. W., M.A., *Senior Tutor, Lectr. (Classics).*

Douglas, C. G., B.Sc., D.M., F.R.S., *Tutor, Lectr. (Nat. Sc.).*

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Costin, W. C., M.A., *Tutor, Lectr. (Mod. Hist.).*

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Mabbott, J. D., B.Litt., M.A., *Lectr. (Philos.), Sr. Dean of Arts.*

Watson, Prof. J. A. S., M.A.

Slade, E., B.A., *Lectr. in Jurisprudence, Jr. Dean of Arts.*

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Berthon, H. E., M.A. (*French*).

Newbould, H. O., M.A. (*Maths.*).

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Weaver, J. R. H., M.A., *Tutor, Lectr. (Mod. Hist.)*, Librarian.  
Higham, T. F., M.A., *Tutor, Lectr. (Classics)*.  
Landon, P. A., M.A., *Lectr. (Jurispr.)*.  
Liddell, E. G. T., B.M., M.A., *Research Fellow in Physiology*.

- Hinshelwood, C. N., M.A., *Lectr. (Chem.)*.  
Kirk, K. E., D.D., *Lectr. (Theol.)*.  
Price, H. H., B.Sc., M.A., *Lectr. (Philos.)*.  
Peters, R. A., M.A., *Prof. of Bio-Chemistry*.  
Waters, E. G. R., M.A., *Prof. of Romance Languages*.  
Hall, R. L., M.A., *Lectr. (Econ.)*.  
Syme, R., B.A., *Lectr. (Anc. Hist.)*.

UNIVERSITY COLLEGE. Founded 1249. Master—Sir Michael E. Sadler, K.C.S.I., C.B., M.A.

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- \*Poynton, A. B., M.A. (*Greek*).  
\*Farquharson, A. S. L., M.A., *Senior Tutor (Logic)*.  
\*Carritt, E. F., M.A. (*Philos.*), Librarian.  
Sollas, Prof. W. J., M.A., F.R.S.  
\*Walker, E. W. A., D.M., D.Sc., *Tutor (Nat. Philos.)*.  
\*Stevenson, G. H., M.A. (*Anc. Hist.*), Secretary.  
Leys, K. K. M., M.A., *Tutor (Mod. Hist.)*.  
Allen, Prof. C. K., M.A.  
\*Keir, D. L., M.A. (*Mod. Hist.*).  
\*Bowen, E. J., M.A. (*Chem.*).  
Grensted, L. W., B.D., M.A., *Lectr. (Theol.)*.

- Cole, G. D. H., M.A.  
Carleton, K. A., M.A., *Prof. of Jurispr.*  
Gardner, A. D., D.M., M.A.  
Maud, J. P. R., B.A.

Radcliffe Travelling Fellows:

- Mallam, P. C., B.M., Queen's.  
Beadle, O. A., B.M., New Coll.

Other Lecturers and Asst. Lectrs.:

- Thompson, C. H., M.A. *Queen's (Maths.)*.  
Carlyle, A. J., M.A., D.Litt. (*Polit. Theory*).  
Morison, C. G. T., M.A. (*Rural Ec.*).  
Douglas, J. A., M.A., D.Sc. (*Geology*).  
Lewis, C. S., M.A. Magd. (*Engl. Lit.*).  
Ewert, A., M.A. (*French*).

\* Prælector.

WADHAM COLLEGE. Founded 1610.

Fellows:

- Wade-Gery, H. T., M.A., *Senior Tutor (Classics)*.  
Lindemann, F. A., M.A., F.R.S., *Prof. of Exp. Philos.*  
Lennard, R. V., M.A., *History Tutor*.  
Brabant, F. H., M.A., *Tutor (Philos.)*.  
Bowra, C. M., M.A., *Tutor (Classics)*.  
Keeley, T. C., M.A., *Lectr. (Physics)*.

- Warden—J. F. Stenning, M.A.  
Cecil, Lord Edward C. D. G., M.A., *Lectr. (English)*.  
Hart, W. O., B.C.L., *Lectr. (Law)*.  
Bretherton, R. F., B.A., *Lectr. (Econ.)*, Librarian.  
Milne, E. A., M.A., Rouse Ball *Prof. of Maths*.

Lecturer:

- Berthon, H. E., M.A. (*French*).

WORCESTER COLLEGE. Founded 1714. Provost—F. J. Lys, M.A.

Fellows:

- Roberts, P. E., M.A., *Vice-Provost, Tutor, Lectr. (Mod. Hist.)*.  
Wilkinson, C. H., M.A., *Lectr. (Engl. Lit.)*, Librarian.  
Pickard-Cambridge, W. A., M.A., *Tutor, Lectr. (Classics)*.

- Somerset, H. V. F., M.A., *Asst. Tutor, Lectr. (Mod. Hist.)*.  
Bryan-Brown, A. N., M.A., *Asst. Tutor, Lectr. (Classics)*.  
Braunholtz, Prof. G. E. K., M.A.  
Parker, J. L., B.A., *Lectr. (Law)*.  
Laycock Student of Egyptology:  
Glanville, S. R. K., M.A.

ST. EDMUND HALL. Founded c. 1238. Principal—A. B. Emden, M.A.

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Brewis, Rev. J. S., M.A. (*Mod. Hist.*),  
*Vice-Principal.*  
 Brewis, G. R., M.A., *Senior Tutor.*  
 Fletcher, R. F. W., M.A., *Tutor*  
 (*English*).  
 Hunt, H. J., B.A., *Tutor (Mod. Langs.)*.

Lecturers :

Thompson, C. H., M.A. (*Maths.*).  
 Chattaway, F. D., M.A., F.R.S.  
 (*Chem.*).  
 Higham, T. F., M.A. (*Classics*).  
 Wand, Rev. J. W. C. (*Theol.*).

KEBLE COLLEGE. Founded 1870.

Tutors :

Reade, W. H. V., M.A., *Sub-Warden.*  
 Milman, Lt.-Col. O., R.A., D.S.O.,  
*Bursar.*  
 Owen, A. S., M.A.  
 Jolliffe, J. E. A., M.A.  
 Rice-Oxley, L., M.A.  
 Parkes, G. D., B.Sc., D.Phil., M.A.

Warden—B. J. Kidd, D.D.

Hugh-Jones, E. M., M.A.  
 Carpenter, H. J., M.A.  
 Meiggs, R., M.A.  
 Johnstone, V. L., B.A.  
 Lectr. :  
 Davidge, C. V., B.C.L., M.A.  
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 Blockley, T. T., M.A.

NON-COLLEGIATE STUDENTS. Censor—J. B. Baker, M.A., Non-Coll.  
 Address—74 High Street.

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 Thompson, C. H., M.A. Qu. (*Maths.*).  
 Baker, J. B., M.A. Non-Coll. (*Mod.*  
*Hist.*).  
 Sturt, H. C., M.A. Qu. (*Philos.*).  
 Kendrew, W. G., M.A. Non-Coll.  
 (*Classics*), *Dean.*

Brook, V. J. K., M.A. Linc. (*Theol.*).  
 Garabedian, D., M.A. Non-Coll.  
 (*French*).

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- \* Francis, Elizabeth A., M.A. (*French*).
- \* Goulding, Sybil M., M.A. (*French*).
- \* Seaton, Mary E., M.A. (*Engl. Lit.*).
- Perham, Margery F., M.A. (*Hist.*), *Vice-Principal*.
- \* Buckhurst, Helen McM., M.A. (*Engl. Lang.*).
- Glover, Mary R., M.A. (*Philosophy and Classics*).
- Lecturers :
- Nicholson, Mrs. Dorothy M. W., M.A. (*Maths.*).
- Farrow, Elizabeth M. O., M.A.
- \* *Librarian*—Procter, Evelyn E. S., M.A.

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- Rooke, Eleanor W., M.A. (*Engl. Lit.*).
- Sandys, Agnes M., M.A., F.R.Hist.S. (*Hist.*), *Vice-Principal*.
- Chesney, Kathleen, M.A., D.Phil. (*French*).
- Wilson, Evelyn G., M.A. (*Econ.*).
- Cooper, Sybil, M.A., Ph.D. Camb., *Librarian, Research Fellow*.
- Lecturers :
- Kirkaldy, Jane W., M.A. (*Nat. Sc.*).
- Farrow, Elizabeth M. O., M.A. (*Chem.*).
- Nicholson, Mrs. Dorothy M. W., M.A. (*Maths.*).
- Everett, Dorothy, M.A. (*Engl.*).
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- Lecturers :
- Farrow, E. M. O., M.A. (*Chem.*).
- Rhys, O., M.A. (*Old French*).
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The students reside in their own homes or with relatives or in private families in Oxford, or, occasionally, in lodgings. They may reside in one of the Hostels maintained by Religious Orders: S. Frideswide's, Cherwell Edge (Roman Catholic), and Springfield S. Mary (Anglican).

## GENERAL INFORMATION

**CONSTITUTION.** The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ. and Colleges. It is the principal legislative body in the Univ. and, subject to the postponing power of Convocation explained below, can adopt, reject, or amend legislative proposals submitted by the Hebdomadal Council. *Convocation*, a larger body consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine, who have their names on the Univ. books, has the power of postponing, but not of rejecting or amending, Statutes or Decrees which have been passed by the vote of less than two-thirds of the members of Congregation present and voting. It also confers honorary degrees and degrees granted by Decree or Diploma. It sanctions petitions to Parliament, and authorises the affixing of the Univ. seal when necessary. The *Hebdomadal Council* consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiry of his term of office), the Proctors, and 18 members elected by Congregation. It takes the initiative in all legislation of the Univ. and forms the central administrative body. Other important bodies, endowed with considerable powers and responsibilities, are the *General Board of the Faculties* and the *Curators of the University Chest*.

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation.

The Colleges are corporate bodies distinct from the Univ. They manage their own property, and elect their own officers; and the Proctors have no power within their walls. Their Statutes, however, render them subject to certain Univ. Statutes which deal, among other things, with reservation of a proportion of Fellowships for Univ. teachers and officers, the assignment of Fellowships to University Professorships, the admission of undergraduates, contributions for Univ. purposes, the presentation and audit of accounts, and the special examination of catering accounts. The relation between the Univ. and the Colleges is intimate. The great majority of the members of the Univ. belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, Lecturers, and Demonstrators, partly by the more numerous body of College Tutors and Lectrs.

**FACULTIES.** Theol., Law, Med., Literæ Humaniores, Mod. Hist., Engl. Lang. and Lit., Med. and Mod. Langs., Oriental Langs., Phys. Sciences (including Maths.), Biol. Sciences. For Music and for Philos., Politics, and Econs., there are Boards of Studies.

**ADMISSION** to the Univ. ("Matriculation") is without respect of sex, birth, age, nationality, or creed, and follows upon admission to a Society, *i.e.* a College or Hall or the Society of Non-Coll. Students, or Society of Home-Students. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must there-

fore be addressed, not to any officer of the Univ., but to the proper officer \* of the Society to which admission is desired ; it should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College walls are desired. Except for certain classes of persons the passing of an entrance examn. is a condition of admission to matricn.

The Colleges and Halls, the Society of Non-Coll. Students, and the Society of Oxford Home-Students require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is necessarily included.

*Students from abroad* (v. also Appendix XXI.). The *Adviser of Overseas Students* (H. S. Williamson, M.A., Indian Institute) will advise applicants from the Dominions and Colonies and foreign countries (other than Rhodes Scholars).

The Secretary to the Delegacy for Oriental Students (H. S. Williamson, M.A., Indian Institute) will advise Indian and other Oriental Students, who should apply for admission through him, but they are recommended to consult the Secy. of the Advisory Committee of their own Province in the first instance.

*Permission to attend lectures* given by Professors and University Readers, and University Lecturers in English Language and Literature, can be obtained by persons who are not members of the Univ. on payment of a fee of £3 a term at the office of the University Chest, Clarendon Building, Broad Street.

Lectures and classes in Mod. For. Langs. may be attended by external students on payment of fees varying from 15s. to 10s. for one hour a week. Application should be made to the Clerk to the Curators, Taylor Institution.

**INCORPORATION.** Members of the Univs. of Cambridge and Dublin can be, under certain conditions, "incorporated" into this Univ., *i.e.* admitted to the status and degree held in their own Univ. Notice of intention to incorporate as an undergrad. must be sent to the Registrar through the Head of a Coll. or the Censor of Non-Coll. Students. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt.D., B.D., D.D., and D.Sc. of those Univs. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons.

In 1910 a Delegacy for WOMEN STUDENTS was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a privileged status. Under the provisions of a Statute approved by Convocation on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. Previous to matricn. a woman must have been admitted as a member of one of the 5 Societies of Women Students. A woman may be admitted to *Responsions* before matricn. provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Soc. to which she *bona fide* desires admission. Women members of the Univ. are admitted to all degrees (except B.D. and D.D.) under the same conditions as those prescribed for men as regards standing, examns., course of study, exercises, and fees, and under analogous conditions as regards residence. A Women Students' Property Committee administers all property vested in the Univ. for the benefit of women members of the Univ. generally, and in particular the Nettleship Library and Bertha Johnson Loan Fund. The Delegacy for Women Students has been abolished.

\* Balliol—The Tutor for Admissions ; Qu.—The Pro-Provost ; Non-Coll.—The Censor, Non-Collegiate Buildings ; in other cases—The head of the Society (v. *supra*).

The number of resident undergraduate members of the Society of Home-Students (who keep statutable residence in houses approved by the Delegates for Lodgings) is limited at present to 220, exclusive of "Advanced students," and of an additional number not exceeding 5 in any term as may for exceptional reasons be given permission to reside. Preference is given to those applicants for admission to the Society whose homes are in Oxford.

The number of undergraduates in residence at the other Societies of Women Students are also limited by Statute to 160 in the cases of Lady Margaret Hall and St. Hugh's Coll., and to 150 in the cases of Somerville Coll. and St. Hilda's Coll.

**ADMISSION TO PRIVILEGED STANDING OF STUDENTS FROM OTHER INSTITUTIONS: "JUNIOR" AND "SENIOR" STUDENTS.** I. *Universities other than Indian.*—(a) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years may be admitted as a "Junior Student" provided that his course and the standard attained by him in any exams. proper to it shall have been approved. No course will be approved which does not include the study of 2 languages other than English, of which languages one must be either Latin or Greek. (b) Any person who has obtained a degree at his Univ., Degree and Univ. having been approved, may be admitted as a "Senior Student," provided that he shall have pursued at that Univ., or, if approved, at more than one Univ., a course extending over 3 years.

II. *Indian Universities.*—(a) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years, and obtained the Degree of B.A. or B.Sc., may be admitted as a "Junior Student," provided that Degree and Univ. have been approved. No Degree will be approved which does not include the study of English and in addition of 2 of the following languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese, of which 2 either Latin or Greek or French or German must be one. (b) Any student who shall have pursued at his Univ. or, should the Hebdomadal Council in his case approve, at more than one Univ. a prescribed course extending over 3 years and obtained a Degree with 1st or 2nd Class Honours, may be admitted as a "Senior Student," provided that Degree and Univ. have been approved.

III. *A Junior Student:* (a) may reckon his 1st term as his 4th; (b) is not required to pass Responsions; (c) is entitled to supplicate for Degree of B.A. after having resided 6 terms and passed the 1st Public Examn. and either (i) obtained a place in the Class List of an Honour School of the 2nd Public Examn. or been allowed "ægrotat"; or (2) satisfied the Examiners in the 2nd Public Examn. in the Final Honour School of Nat. Sc. in Chem., Pt. I., or in the Final School of Agric. or of Forestry; or (3) obtained Honours in the 1st Public Examn., and subsequently passed the 2nd Public Examn.; or (4) if disqualified by standing from obtaining such Honours, shown such merit as would otherwise have entitled him to a place on the Class List.

*A Senior Student:* (a) may reckon his 1st term as his 4th; (b) is not required to pass Responsions or any part of the 1st Public Examn. or any Preliminary or Previous Examn. of the 2nd Public Examn.; (c) is entitled to supplicate for the Degree of B.A. after having kept statutable residence for 6 terms, and having either (i.)—as above—(c) (1); or (ii.)—as above—(c) (4); or (iii.) satisfied the Examiners in the Final Honour School of Chemistry, Part I.; or (iv.) passed the Prel. Examn. in Agriculture or Forestry and also the Final Examn. in Agriculture or Forestry.

No Junior or Senior Student will be entitled to supplicate for the Degree of B.A. except as above.

Members of the following **AFFILIATED COLLEGES** may claim the status of

Affiliated Junior Student if they have pursued a 2 yrs.' course of study at their Coll. and taken Honours in an examn. thereon: St. David's Coll., Lampeter (3 yrs.' course with Honours may give admission to status of Senr. student); Univ. Colls., Nottingham, Southampton, Exeter; Exeter Diocesan Training Coll. The privileges of an Affiliated Junior Student are similar to but not identically the same as those of a "Junior Student."

**TERMS.** The Academical year, which begins in Oct. and ends in July, consists of 3 terms, Michaelmas, Hilary, and Trinity, beginning, respectively, on Oct. 1, Jan. 10, and the Wednesday after Easter Day, and ending Dec. 17, the day before Palm Sunday, and the Saturday after the first Tuesday in July. Residence within the walls of a College or Hall, or in licensed lodgings,\* during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree. Full terms begin Oct. 13, 1929, Jan. 19 and April 27, 1930, and end Dec. 7, 1929, March 15 and June 21, 1930.

**DEGREES.** B.A., M.A., B.Litt., D.Litt.; B.Sc., D.Sc.; D.Phil.; B.D., D.D.; B.C.L., D.C.L.; B.M., B.Ch., M.Ch., D.M.; B.Mus., D.Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matricn. at Oxford are those of B.A., B.Litt., B.Sc., D.Phil., B.G.L., and B.D.

**ARTS.** Examns. in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns.; in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matricn. No conditions of residence are attached by the Univ. to either Pass or Honour examns.; it is simply for the attainment of the degree of B.A. that residence is obligatory. Every Coll. and Hall, however, as well as the Delegacy of Non-Coll. Students, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B.A. must (1) reside at the Univ. as a matriculated member during 9 terms, unless he is privileged as a member of another Univ. or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

(a) *Responsions*. This is the Entrance Examination to the University. It must be passed, or some examn. accepted as equivalent to it, before matriculation. Names of candidates must be entered through an officer of the Society to which they intend to belong. The examn. includes 3 groups: I. (a) Latin, (b) Greek; II. (a) English, (b) French, (c) German, (d) Italian, (e) Spanish; III. (a) Maths., (b) Nat. Sc. To have passed Responsions it is necessary to have passed either in both subjects of Group I. and in the 2-subjects in Group III., or else in one subject at least in each group, and in 4 subjects in all, including two languages other than English. See also Appendix XX.

(b) *The 1st Public Examn.* This consists of (1) Examn. in Holy Scripture, (2) Honour Classical Moderations, (3) Hon. Math. Modns., (4) Pass Modns., (5) Prelim. Jurisprudence, (6) Prelim. Mod. Hist., (7) Prelim. N.Sc., (8) Prelim. Agr., and (9) Prelim. Forestry. In order to pass the Examn. a candidate must pass in (1) and in one of the other subjects.

(c) *The 2nd Public Examn.* This consists of (a) a Pass School and (b) an Honour School. (a) contains a large variety of subjects, and candidates taking it are required to pass in 3 of these, of which one must be a language-subject other than English. There is also a homogeneous course in either

\* In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

*Agriculture or Forestry.* (b) includes the following, a class in any one of which is sufficient: Literæ Humaniores (Philos. and Ancient Hist.); Maths.; Nat. Science (Phys., Chem., Physiol., Zool., Bot., Geol., Astron., or Engin.); Jurispr.; Mod. Hist.; Theol.; Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, or Egyptian); Engl. Lang. and Lit.; Mod. Langs. (French, Ger., Ital., Span., Russ., or Mediæval and Mod. Greek); Philos., Politics, and Economics.

Under certain conditions members of other Univs. and officers not under 21 years of age who have held for not less than 3 years a Commission in H.M. Regular Forces, and been seconded or specially relieved from active duty by the Admiralty, War Office, Air Ministry, or India Office for the purpose of attending an academic course of not less than 2 yrs., may be admitted to the status of "Service Student," and obtain exemption from Responsions and, under further conditions, from the 1st Public examn., as well as a remission of 3 terms of the necessary residence (v. *supra*, p. 216). Analogous concessions are made in favour of Probationers for Forest Services in the British Empire who have obtained an approved degree at an approved Univ. and been admitted to the status of "Imperial Forest Service Student." Natives of Asia, Egypt, or the Sudan, born of non-European parents, can apply for permission to offer a substitute for Latin or Greek in Responsions and the 1st Public examn.

**ADVANCED STUDY AND RESEARCH.** THE DEGREES B.LITT. AND B.Sc., instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford. Application to enter upon such a course may be made by any person who produces sufficient evidence of his ability and (1) is a member of the Univ. who has passed the examns. for the degree of B.A., or (2) has taken an approved degree at an approved Univ., or (for the B.Litt), not being a member of the Univ. of Oxford, (3) has obtained an Oxford diploma with distinction, or is held by the Board of the Faculty to be fully qualified to engage in research. Applications must in all cases be made to the Secy. of Faculties through an officer of the Society to which the candidate belongs or desires to belong. Residence as a member of the Univ. for 6 terms is a necessary condition for either degree. A candidate for the B.Litt. must first undergo a course of training in research methods and then do a special piece of research work and write a thesis, and may be required to pass a written examn. For the B.Sc., which is confined to the faculties of science and medicine, no probationary period is prescribed.

Of a similar nature but of a much higher standard is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v. p. 18).

To a student who, having carried out his research for a period of not less than 3 terms, has completed a course of study or research for the B.Litt. or B.Sc. and embodied the results in a dissertation, or has pursued during such residence a course of study or research under the direction of the COMMITTEE FOR ADVANCED STUDIES, a *Certificate* may be granted by the Board of the Faculty or Board of Studies concerned or by the Committee for Advanced Studies, as the case may be.

The higher degrees, D.LITT. AND D.Sc., instituted in 1900, are awarded for published work of sufficient merit.

**THEOLOGY.** The B.D. degree is open to candidates of over 26 yrs. of age who have passed a Qualifying examn. in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject. No candidate may present a thesis until he has passed the Qualifying examn., which is open to Oxford M.A.'s, to persons who have, not less than 5 terms previously, passed

all examns. for the Oxford B.A., and, under certain conditions, graduates of other univs. First-class honrs. in School of Theol. exempts from this examn.

The degree of D.D. is open to those who have been admitted to the degree of B.D. subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

**LAW.** The examn. for the B.C.L. degree is open either (1) to B.A.'s of the Univ. or (2) under certain conditions (including residence for 6 terms) to graduates in Arts, Philos., Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl., Roman-Dutch, and Internat. Law.

**MEDICINE.** The B.M. degree is open only to B.A.'s of the Univ. who have passed certain examns. in Med. and Nat. Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 or 8 years, of which two or three are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M. examn. The M.Ch. degree is open to candidates who have passed all the examns. for the B.M. and B.Ch., and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 mos. A candidate for the D.M. must be a B.M., and have entered on the 30th term from matricn. and had his name on the books of some Coll. or Hall or on the Register of Non-Coll. Students for 20 terms.

Affiliated Colonial or Indian Senior Students may be exempted from the preliminary examn. in Physics, Chemistry, Zoology, and Botany, in consideration of equivalent examns. passed at their previous Universities.

**MUSIC.** The degree of B.Mus. is open to candidates who *either* (a) have been admitted to the degree of B.A. *or* (b) have (1) passed Responsions or an equivalent Examn., (2) pursued at the Univ. a course of musical study extending over at least 2 years. All candidates must also pass 2 examns. in Music (the subject of one of which is the composition of a Musical Exercise) under conditions laid down by Statute. Residence for 6 terms is required, and the examn. may be completed in 6 terms as in the case of the Degrees of B.Litt. and B.Sc. A B.Mus. may qualify for the degree of D.Mus. by submitting a musical composition for approval and passing a further examn. in Music, but cannot submit a composition until the 9th term after his admission to the Baccalaureate.

**DIPLOMAS.** Most of these are open to persons who are not members of the Univ. Minimum courses and addresses of Secretaries from whom particulars can be obtained :

Geography, 1 yr., The Director, School of Geog., Mansfield Rd.  
Education, 1 yr. (or Vacation course, v. *infra*), Director of Training,  
15 Norham Gardens.

Economics and Political Science, Dr. A. J. Carlyle, 29 Holywell St.

Anthropology, 1 yr., The Secy., Committee for A., 40 Broad St.

Forestry, 1 year, The Professor of F., School of F. Open to graduates of Oxford or other Univs.

Rural Economy, 1 yr., The Professor of R.E., School of R.E.

Classical Archæology, 1 yr., Secy. to Committee on C.A., Ashmolean Museum.

Theology, 1 yr., Secy. of Faculties.

Open to Registered Medical Practitioners and to approved Bachelors and Doctors of Med. of Univs. outside the U.K. : Ophthalmology, Dean of the Medical School, University Museum.

**Certificates** : Surveying or General and Regional Geog., 2 terms, Director, School of Geog. ; Physical or Cultural Anthropology, 3 months, The Secy.,

Committee for A., 40 Broad St.; French or German; Training for Social Work, The Secy., Social Training Committee, Barnett House.

The following have been approved as Societies for higher study at Oxford, the members of which may have their names entered in the Univ. Register of Diploma students although they are not members of the Univ.: *Ruskin College, Catholic Workers' College.*

COMMISSIONS IN H.M. FORCES, v. Appendix I. Candidates must have resided for 3 yrs. at the Univ., be over 21 and under 24, be unmarried, and be in possession of a degree. Office of the Secy. to the Delegacy for Military Instruction—20 St. Michael's St.

AVIATION. Membership of the University Air Squadron is granted by selection to members of the University after interview by a Selection Committee. All candidates must obtain parental and College permission to join, and must be up to the full medical standard of the Royal Air Force. There are no fees for entrance, medical examination, or flying instruction, but a small annual subscription is imposed for Club purposes. Every member undertakes to obtain the Squadron Certificate of Proficiency by the end of his second year in the Squadron. This involves passing an examn. in four ground subjects, and it qualifies the holder to fly solo in term time. The Squadron is limited to 75 members, and in consequence there is great competition for membership. Students from overseas are advised to bring parental consent to join the Squadron with them before they sail for England.

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

The Department for the TRAINING OF TEACHERS (address—15 Norham Gardens), established in 1919, is under the general direction of a Delegacy. For staff, see under Education. For the Univ. Dipl. in Educn. there is a 1 yr. post-grad. course, theoretical and practical. Undergraduates are admissible on certain conditions. One or, under certain conditions, two terms may be spent in practical work at a secondary school or, by special permission, abroad at an approved European Univ. Students are also accepted for a 4 yrs.' course (v. Appendix XIX.).

A *vacation course* of 4 weeks (fee £7: 10s.) is held from time to time in Aug. It will be held in 1930, and is open without restriction to men and women. Students of this course who are graduates and who are teachers with 7 yrs.' experience may obtain the Univ. Diploma without further residence.

SCHOLARSHIPS AND FELLOWSHIPS. College Entrance scholarships are very numerous and valuable. The Univ. scholarships and fellowships are usually open only to members of specified standing. Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin; 1 (£100) is for Ment. and Mor. Philos.; 2 (£80) for Maths.; 8 (£1340) for Med. and Nat. Science; 4 (£440) for Law; 3 (£300) for Theol.; 13 (£760) for Oriental Studies. The Colls. have power to elect persons distinguished in Science or Literature to Senior Research Fellowships on condition of prosecuting some definite work; they have also power to elect from time to time Junior Research Fellows for limited periods, usually after examn.

The General Board of Faculties has power to award studentships for advanced study and research; and there are certain funds, such as the Craven and Ireland, from which grants for the furtherance of particular studies may be made.

The Rhodes Scholarships were founded in 1902 under the will of the late Cecil John Rhodes. The value of each is £400 a year, tenable at Oxford for

3 years, subject to approval from year to year by his College of the Scholar's progress and conduct. The conditions of the competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness, and fellowship; and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his school-mates."

*The Dominions and Colonies.* An annual Scholarship is assigned to each Province\* of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand (2); in South Africa to the Province of Natal, the Transvaal, the Orange Free State, the Cape Province, the S.A. College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St. Andrew's College School at Grahamstown, in alternate years to the towns of Kimberley and Port Elizabeth, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1921, and is awarded once in 3 years.

In founding these Scholarships, Mr. Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will "broaden their view," "instruct them in life and manners," and "instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

*United States of America.* Two Scholarships are assigned under the will to each State. As the Scholarship is tenable for 3 years, there must be for each State 1 year out of every 3 in which there is no election. Of the 48 States, 32 elect each year, the remaining 16 holding no election. The reason given by Mr. Rhodes for founding the American Scholarships is his "desire to encourage and foster an appreciation of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U.S. . . . an attachment to the country from which they have sprung, but without I hope withdrawing them or their sympathies from the land of their adoption and birth." *The American Oxonian*, the official magazine of the Alumni Assocn. of American Rhodes Scholars, is published quarterly by E. D. Keith, 310 Prospect Street, New Haven, Connecticut.

*Germany.* The German Rhodes Scholarships, which were discontinued during the war, have recently been re-established. Two German Rhodes Scholars will be selected at the end of 1929 to come into residence at Oxford in October 1930.

*Number actually in residence, 1928-29 (whole or part),* 181—Studying Law, 58; Nat. Sc. and Med., 34; History, 10; Econs. (Dipl., etc.), 7; Lit. Hum., 10; Engl., 25; Theol., 1; Maths., 8; Phil. Pol. and Econs., 19; other subjects, 9.

*Professions followed by Rhodes Scholars since leaving Oxford.* Education, 493; Law, 306; Business Industry and Mining, 138; Govt. Service, 66; Medicine, 88; Ministry and Social Work, 44; Farming, 19; Journalism and Publ., 34; Engineering, 20; Army, Navy, or Air Service, 6; Miscellaneous, 43.

\* Two each to Quebec and Ontario.

**General.** Provision is now made under the Trust for the continuous residence at Oxford of between 190 and 200 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 years' domicile; and must have at least 2 years' standing at a regular degree-granting College or Univ., except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Trust, Seymour House, Waterloo Place, London, S.W.1.

The most useful book dealing with the subject is *Oxford of To-day*, a manual for prospective Rhodes Scholars, Oxford Univ. Press, 1922; 2nd edition, 1927.

**Secretary to the Rhodes Trustees**—Philip Henry Kerr, C.H., Seymour House, Waterloo Place, London, S.W.1. **Local Secretaries**: Oxford—Sir Francis J. Wylie, Rhodes House, Oxford; *U.S.A.*—President Frank Aydelotte, Swarthmore College, Swarthmore, Pa.; *Canada*—J. M. Macdonnell, Esq., 153 St. James St., Montreal; *Australia*—J. C. V. Behan, Esq., Warden's Lodge, Trinity College, Carlton, N.3, Victoria; *S. Africa*—P. T. Lewis, Esq., Court Chambers, Keerom St., Cape Town.

THE RHODES TRAVELLING FELLOWSHIPS, founded in 1926, are to enable resident Fellows, Tutors, or Lecturers of either sex at Oxford to travel, study, or undertake research in the British Commonwealth and the United States, and especially in those territories from which Rhodes Scholars are derived. A candidate must have spent at least 5 years as a resident Fellow in Oxford, and will be expected to return to Oxford when his Fellowship expires and resume his teaching there. The value of the Fellowship is £100 a month for from 6 to 12 months.

THE APPOINTMENTS COMMITTEE deals with appointments of all kinds. It has through its Consultative Committee reps. in every Coll. Sec.: C. E. D. Peters. Ednl. Sec., E. A. Greswell, 40 Broad St. Telegrams—Appointments, Oxford.

**LIBRARIES AND MUSEUMS.** The *Bodleian Library*, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ., contains over 1,250,000 vols. (representing more than 2,500,000 separate literary pieces) and 40,000 MSS. Persons, other than graduates of the Univ., are admitted on presenting a recommendation from some one in a responsible position in Oxford or elsewhere, knowing the applicant personally. The *Manual for Readers* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library. The chief books relating to it are: Macray, W. D., *Annals* (Clar. Press, 1890, 25s.); Clark, A., *Guide for Visitors* (Clar. Press, 1906, 1s. 6d.); Gibson, S., *Some Oxford Libraries* (Clar. Press, 1914, 2s. 6d.); Madan, F., *The Bodleian Library*, London, 1919, 2s. 6d.; *The Bodleian Quarterly Record from 1914* (1s. quarterly, obtainable from the Libn.).

There are the following departmental libraries of the Bodleian:

The Law Library (law of English-speaking countries), and the Maitland Library (social and legal history), at the Examination Schools.

The Radcliffe Science Library at the Univ. Museum, 100,000 vols., consisting largely of books and periodicals on Maths., Nat. Sci., and Med., and of the Tylor Anthropological collection.

The Indian Institute Library, devoted to Oriental studies. There is also in the Indian Institute a museum illustrating Indian antiquities and Indian life.

Rhodes House Library (History, etc., of the British Empire and the U.S.A.).

The Taylorian Library of *Modern Languages and Literature*, 100,000 vols., comprises the chief philological, literary, and historical works of the principal

European languages and nearly all respective Reviews, Literary periodicals, etc., of Continental Societies of importance.

The Codrington Library (All Souls College) is especially rich in works bearing upon *Modern History and Law*. The Brand Library, also at All Souls, is a collection of books on *Political Economy and Science*. There are also the following: the Library of the *English School* at the Examination Schools; a *Geographical Library* (5000 vols.) and *Maps* (13,000 sheets) in Mansfield Rd.; and a Library of *Economics and Politics* at Barnett House.

The *College Libraries* include many important collections, such as the *Russian and other Slavonic* books, 5000 vols., at Queen's; *History and Literature* MSS. of 17th cent. at Worcester; *Music and Early Scandinavian* collections, at Christ Church. The MSS. in the College Libraries are described in Coxe's Catalogue, published at the Clarendon Press, 1852.

*Art and Archæology*. The Ashmolean, the earliest English Museum, formed 1600-1650, contains, in addition to a Library of *Art and Archæology*, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

The Pitt-Rivers Museum has an *Anthropological* collection illustrating the evolutionary history of material arts.

*Zoology, Geology, Mineralogy, Entomology* (Lepidoptera Collection illustrating mimicry, etc.), are all represented in the Univ. Museum.

LABORATORIES: Electrical; Clarendon (chiefly for study and research in Heat, Optics, and Acoustics); Chemistry, Organic and Inorganic (several Colleges have labs. of their own, e.g. Ch. Ch.—Analyt. Chem.; Ball. and Trin.—Phys. Chem.; Jes.—Inorganic; Queen's); Physiology; Biochemistry; Zoology; Entomology, with extensive Collections and Library; Botany (Garden with Collections and Library); Geology (special equipment for study of fossils by serial sections); Mineralogy (special facilities for research in Crystallography); Engineering; Forestry (expl. plantations and forest garden); Human Anatomy; Pathology and Bacteriology; two *Observatories*.

An *Imperial Forestry Institute* was established in 1924. It is controlled by a Board of Governors representing the Univ. and the Government departments (Colonial Office, Forestry Commission, etc.) concerned. It provides post-graduate and specialized training, as well as revision courses for forest officers already serving, and forms a centre for research in regard to forest production. Practical instruction is provided in various forest centres on the Continent.

The *School of Rural Economy* is the Department of the University responsible for teaching in Agriculture. There is an Institute for Research in Agricultural Economics and an Institute for Research in Agricultural Engineering. There is also an agricultural Advisory Institute responsible for advice and research on local problems in Oxfordshire and Northamptonshire. There is a farm in connexion with the School and the Institutes for demonstration and experimental purposes. The School and the Institutes are mainly financed by grants made by the Ministry of Agric. to the Univ. for this purpose. (See App. XXIV).

The OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly examns. and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions and the Previous Examination, the Matricn. examns. of London, the Northern and other English Univs., and

The items are :—Univ. fees (capitation tax), £5 : 5s. ; College fees, £54 (tuition, £24 to £30 ; establishment charge, £18 to £21 ; College dues, £4 to £10) ; board and lodging, £110 (rooms and service, £21 to £50 ; food expenses, £38 to £87 ; fuel, £5 to £7 ; laundry, £4 : 10s. to £9) ; personal expenses, £67 (books, travelling, tradesmen—including tailor, etc., clubs, and societies). The excluded initial expenses are caution-money, College admission fee (£2 to £5), matricn. £5, furniture, linen, china, etc., and (£2 to £4 : 10s.) cap, gown, and surplice. The "occasional" fees are for examns. £8 (medical, £16 : 8s.), and degree fees, £5. The "additional" expenses (which may be heavy, especially if much private tuition has to be allowed for) are additional lecture and laboratory fees, long vacation expenses, and private tuition.

## RECENT CHANGES IN STATUTES

Under the Universities of Oxford and Cambridge Act 1923, which set up a Statutory Commission for Oxford, new Statutes were made for the University and for the Colleges. These Statutes were laid before Parliament and received the approval of the King in Council. A summary of the most noteworthy changes embodied in them, prepared by Sir Henry Sharp, K.C.I.E., the Secretary to the Commission, will be found in the *Year Book* for 1929, pp. 221 and 222.

## THE YEAR 1928-29

**BENEFACTIONS.** Captain B. Owen and Mr. W. J. Mallinson, £10,000 for engineering research in connexion with the Inst. of Agric. Engineering. Mr. H. A. Sanders, £5000 out of the estate, and in acc. with the wish, of the late Mr. T. Murphy ; books for the Bodleian Library. Lord Beaverbrook, through the Prime Minister, £1000 for the furtherance of medical knowledge. The late Prof. Arthur William Scott, £4322 : 14 : 8, called the Arthur William Scott Fund, the annual income therefrom to be applied for the furtherance of Physical Science. Regulations provide *inter alia* that there shall be two Schps. called the Scott Schps. in Physics, each tenable for not more than two years ; one shall be awarded by the Wykeham Prof. of Physics and one by the Prof. of Exper. Philosophy ; each Scholar to pursue a course of special study, or engage in research, in some branch of Physics approved by the nominating Professor. The late Mr. Charles Marten Powell, M.A., Hon. Fellow of C.C.C., by will the residue of his estate for the general purposes of the Univ. subject to an annuity of £300, free of all deductions, to his widow. The Society of Friends of the Old Ashmolean and Sir Dugald Clerk, K.B.E., F.R.S., gifts of armorial windows for the staircase of the Old Ashmolean Building. Mr. Gilbert Varley, £6000 5 per cent War Stock, 1929/1947, subject to a life annuity for medical research. Mrs. W. F. R. Weldon, Hon. M.A., pictures by Carel Fabritius, Gainsborough, Romney, Corot, Cotman, and Sir David Young Cameron, to the Ashmolean Museum (Department of Fine Art). The Assn. of American Rhodes Scholars, £1200 p.a. for a Professorship, to be known as the "George Eastman Visiting Professorship" (after Mr. George Eastman, whose generosity made it possible) and to be governed by the following Regulations : 1. The incumbent shall be a citizen of the United States, eminent in teaching or research in any branch of Univ. study, and he shall lecture and give instruction in the subject of study in respect of which he is appointed. 2. He shall be selected by a Board representative of the Univ. of Oxford and the Assn. of American Rhodes Scholars. 3. The appointment shall be from 1 to 5 yrs., with possible re-election, and successive appointees shall, so far as possible, represent different subjects of study (v. App. XXVII.). To commemorate

his work in the Spanish School at Oxford, colleagues, pupils, and friends of Don Fernando de Arteaga y Pereira, £310 for a Prize for an essay in Spanish on some subject connected with the lit. or hist. of Spain.

**LEGISLATION.** In March, 1929, Congregation agreed to authorize the Curators of the Univ. Fund to receive donations towards the cost of a scheme to meet the needs of the Bodleian Library. It is proposed : (1) To build a repository capable of almost unlimited extension outside Oxford. A suitable plot of ground within easy reach is available. The repository would house all little-wanted printed matter, but arrangements would be made by which publications in the repository could either be fetched to the central Library when required or could be consulted by readers at the repository. One of the uses of such a repository would be that it would enable the Curators to store publications which otherwise they might feel compelled to exclude on the ground of lack of space. (2) To exclude certain ephemeral publications from the Library altogether. The Curators have decided to authorize the Librarian to exclude (a) Railway Time-tables ; (b) Almanacs, Calendars, and Diaries ; (c) Fiction Magazines ; (d) Sheet Music ; (e) Books for young children ; (f) Religious and Temperance Tracts. (3) To erect a dignified building on the north side of Broad Street facing the Old Clarendon Building, connected by a subway with the present Library. It is suggested that while the building should be designed to occupy the whole site, only part of it need be erected at once. Its capacity could be very considerably increased by having additional shelving in a basement. This building and the present Library would form the central portion of the new Library, and they would between them give the space required for the developments referred to above. While this would provide for the expansion of the Library for a very considerable period, it is essential to take account of the more remote future, and the absorption of the Clarendon Building or some other site in the neighbourhood is envisaged as a part of the ultimate scheme. The consent of Convocation was given to the grant by the V.-C. of a licence for the establishment of a permanent Private Hall in New Inn Hall Street, to be known as St. Peter's Hall, Oxford (Rev. C. M. Chavasse, M.A. Trin., to be Master).

The Hall will enable deserving men of small means to take a Univ. course, under full residential conditions, at less cost than now generally possible. The King in Council approved a Statute providing that the age-limit imposed upon holders of Professorships, Lecturerships, and other University Teacherships by *Statt. Tit. IV. Sect. 1, § 1, cl. 2*, shall be removed in the case of the holders of the Grinfield Lecturership on the Septuagint, Ford's Lecturership in English History, Professorship of Poetry, and Wilde Lecturership in Natural and Comparative Religion. A schedule of University Officers whose offices qualify them to hold Professorial Fellowships in Colleges was made by Statute ; in it were included the Public Orator, the Registrar, Bodley's Librarian, the Secretary to the Curators of the University Chest, the Keeper of the Archives, the Keeper of the Department of Antiquities, the Keeper of the Department of Fine Art, the Secretary of Faculties, and the Secretary to the Delegates of the University Press. A Committee of the Fine Arts was constituted with power to make arrangements for lectures and courses of instruction, within the University, on the Fine Arts or subjects pertaining thereto. Diplomas in Mediæval and Modern Art are to be granted after an annual examn. Admission to the Diploma is restricted to persons who (a) have obtained first or second class Hons. at the Univ. in a Final School, or (b) have obtained 1st or 2nd class Hons. in Class. Mods. and have passed the examns. required for the B.A. at the Univ., or (c) being graduates of the Univ. or having taken a Degree at some other Univ. (both Degree and Univ. having been appd. by the Hebdomadal Council), have, in the opinion of the Committee for the Fine Arts, special aptitude

or qualifications for such studies. Regulations were made for the Beit Fund, laying down an order of priority for charges on the Fund. Any balance of the income, not required for the main purposes, is to be applied to (1) the payment of the stipend of a Lecturer in Econ. Colonial History, who shall be appointed every 4th yr. to give a course of six lectures, stipend £200; (2) the establishment of Senior Research Schps. in Colonial Hist.; (3) the provision of a fund to assist the Beit Professor to travel from time to time within the Empire in order to visit the countries with which his work is concerned and to study local records; (4) grants made by the Board of Management for any purposes which in their opinion will promote the study of Colonial Hist. in the Univ.; (5) the augmentation of the capital of the Fund. It was provided by Regulations that the Entrance Examination before matriculation should be excused to (1) Colonial Office Administrative Probationers for Tropical Africa, Colonial Office Forestry Probationers, and Colonial Office Agricultural Scholars; and (2) to applicants whose documentary evidence for registration of exemption from Responsions is defective either if certified evidence is given by cable or if all the necessary requirements for the Degree constituting the qualification have been fulfilled, though the Degree itself has not yet been conferred. The Hebdomadal Council was empowered to grant, if it think fit, the privileges of Senior status to adult students recommended by the Delegacy for Extra-mural Studies.

An "All Souls Lectureship in Private International Law" was established by Statute, the stipend (£300) of the lectr. being found by All Souls Coll., and his election vested in a Board constituted acc. to the Coll. Statutes. A grant of £50 was made towards the expenses of the Oxford University British Guiana Expedition, 1929.

**EXTRA-MURAL STUDIES.** Convocation has approved Regulations enabling the Delegacy for Extra-mural Studies to recommend the admission of Adult Students to the Univ. without the necessity of passing Responsions. A grant of £800 for 4 yrs. has been made to the Delegates to provide schps. for Adult Students.

Eleven Adult Students were in residence in the University under the Delegacy's Adult Scholarship Scheme, 4 in their first yr., 5 in their second, and 2 in their third. Three students obtained the B.A. degree and 1 the B.Litt. at the end of their second yr.

**HONORARY DEGREES.** *D.C.L.*—H.E. the Marquis de Merry del Val, G.C.V.O., the Spanish Ambassador; H.E. Brigadier-General Charles Gates Dawes, C.B., Ambassador of the U.S.A.; H.E. Mohamed Mahmoud Pasha, Prime Minister of Egypt; The Rt. Hon. the Viscount Chelmsford, G.C.S.I., G.C.M.G., G.C.I.E., G.B.E., M.A., Fellow of All Souls, Hon. Fellow of Magd. Coll.; The Rt. Hon. the Viscount Hailsham; The Rt. Hon. Herbert A. L. Fisher, M.A., F.R.S., P.B.A., Warden of New Coll.; Admiral Sir Osmond de Beauvoir Brock, G.C.B., K.C.M.G., K.C.V.O.; General the Hon. Sir Herbert A. Lawrence, G.C.B.; Sir S. Harcourt Butler, G.C.S.I., G.C.I.E.; George Macaulay Trevelyan, C.B.E., F.B.A., Regius Prof. of Mod. Hist. in the Univ. of Cambridge. *D.Sc.*—Sir J. Alfred Ewing, K.C.B., F.R.S., V.-C. and Principal of the Univ. of Edinburgh; Sir William B. Hardy, F.R.S., Fellow of Gonville and Caius Coll., Cambridge; Oswald Veblen, Prof. of Maths. in Princeton Univ. *D.Litt.*—Sir Henry Churchill Maxwell-Lyte, K.C.B., M.A. Ch. Ch.; Sir George A. Grierson, O.M., K.C.I.E.; William Macbride Childs, M.A., Keble Coll., V.-C. of the Univ. of Reading; Antoine Meillet, Prof. of Comp. Philol. at the Coll. de France, Paris; Reginald Lane Poole, M.A., Fellow of Magd. Coll.; Andrew George Little, M.A., Ball. Coll.; Arthur Blackburne Poynton, M.A., Fellow of Univ. Coll. *D.Mus.*—Charles Sanford Terry, Litt.D. (Cambridge), Hon. Mus.D. Edin.; M. Maurice Ravel; [Marshal Hubert

Lyautey, Marshal of France, Mr. F. B. Kellogg, late Secretary of State, U.S.A., and Sir Hugh Bell, Bart., C.B., upon whom it was also resolved to confer the Hon. Degree of D.C.L., were unable to be present at the Encenia to receive the Degree]. D.D.—The Rev. Frederick Robert Tennant, D.D., Fellow of Trin. Coll., Cambridge; The Rev. Hugh Ross Mackintosh, Prof. of Systematic Theol. at New Coll., Edinburgh; Professor Adolf Deissmann, Prof. of New Testament Exegesis and of the Philology of the Greek Bible, Berlin. M.A.—Rev. Canon H. W. Woodward; Lt.-Col. M. Beckwith Beckwith-Smith, D.S.O., Ch. Ch., O.C. the Univ. Contingent of the Officers' Training Corps; Alfred Robinson, Assist. to the Sec. to the Delegates of the Univ. Museum.

SPECIAL ANNUAL LECTURES. The Romanes Lecture was delivered by the Hon. Sir J. W. Fortescue, K.C.V.O., Hon. D.Litt. (subject: "The Vicissitudes of Organised Power"); the Halley Lecture by Sir G. T. Walker, M.A., Sc.D., F.R.S. (subject: "Some Indian Meteorological Problems"); the Herbert Spencer Lecture by C. S. Myers, M.D., Sc.D. (subject: "Psychological Conceptions in other Sciences"); the Taylorian Lecture by Prof. Oliver Elton, M.A., Hon. D.Litt. (subject: "Chekhov"); the Zaharoff Lecture (1928) by M. Louis A. Terracher, D. ès L., Rector Univ. of Dijon (subject: "La Géographie linguistique et l'Histoire des Langues").

DEATHS. The deaths of the following may be mentioned: William Leonard Courtney, Fellow of New Coll., Nov. 1, 1928; Rev. G. B. Cronshaw, Principal of St. Edmund Hall, Fellow of Queen's, Dec. 20, 1928; Sir William Turner Thiselton-Dyer, Hon. Student of Ch. Ch., Director of the Royal Botanic Gardens, Kew, 1885-1905, Dec. 24, 1928; E. P. Warren, Hon. Fellow of C.C.C., Benefactor to the Coll. and to the Ashmolean Museum, Dec. 28, 1928; Sir William Boyd Dawkins, Hon. Prof. of Geol. and Palaeon. in Vict. Univ., Manchester, Hon. Fellow of Jesus, Jan. 15, 1929; Rev. Sir John Caesar Hawkins, Bart., Hon. Canon of St. Albans, Hon. Fellow of Oriel, Jan. 18, 1929; Nevill Forbes, Prof. of, and Reader in, Russian, Feb. 9, 1929; Right Rev. W. Oldfield Burrows, Bp. of Chichester, Hon. Fellow of C.C.C., Feb. 13, 1929; Joseph Wells, Hon. Fellow of Queen's and Wadham, V.-C. of the Univ., 1923-26, Feb. 28, 1929; Right Hon. Baron Phillimore, Lord Justice of Appeal, 1913-16, sometime Fellow of All Souls, Mar. 13, 1929; Sir John M. Jones, Prof. of Celtic, Univ. Coll. of North Wales, Bangor, Research Fellow of Jesus, 1904-8, Apr. 16, 1929; Right Hon. Earl of Rosebery, Sec. of State for Foreign Affairs, 1885-86 and 1892-94, Prime Minister, 1894-95, Hon. Student of Ch. Ch., May 21, 1929; Leonard T. Hobhouse, Fellow of C.C.C., 1894-97, Fellow of Merton, 1887-94, Prof. of Sociology in the Univ. of London, June 21, 1929; Sir Edwin Ray Lankester, K.C.B., F.R.S., Emer. Prof. of Zool. and Comparative Anat., Univ. of London, late Linacre Prof. of Comp. Anat., Hon. Fellow of Exeter, Fellow of Merton, and Hon. Student of Ch. Ch., Aug. 15, 1929; Dr. E. A. Sonnenschein, Emer. Prof. of Latin and Greek, Birmingham Univ., sometime Scholar of Univ. Coll., Sept. 2, 1929; Baron Newlands, D.L., Hon. Fellow of Balliol, Sept. 5, 1929; Dr. W. H. Perkin, F.R.S., Waynflete Prof. of Chemistry, Sept. 17, 1929.

STUDENTS. Full-time, 4559; research students, 185; preparing for first degree, 4129; other full-time students, 245. Matriculations, 1523.

Extra-mural tutorial classes: 30 three-year; 1 advanced; 1 preparatory. Total students enrolled, 589.

Summer School held at Oxford and Camb. in alternate yrs., in 1930 at Camb.; 6 wks. in July and Aug. attended by 170 students.

University Extension lectures, 569, distributed in 74 courses at 59 centres,

regularly attended by over 5000 persons. Of these courses 8 were in Hist., 37 in Lit., 6 in Econ., 10 in Art and Archæol., 3 in Nat. Science, 4 in Music, 3 in Geog., 1 in Psychol., 1 in Philos. of Religion, and 1 in the Lit. of the Bible.

DEGREES. B.A., 1052 ; M.A., 498 ; B.Litt., 34 ; B.Sc., 29 ; B.C.L., 19 ; D.C.L., 1 ; B.M., 14 ; D.M., 9 ; B.Mus., 2 ; B.D., 1 ; D.Phil., 25.

# UNIVERSITY OF READING

VISITOR—H.M. THE KING.

CHANCELLOR—J. H. BENYON, M.A., Lord-Lieutenant of Berkshire.

VICE-CHANCELLOR—T. FRANKLIN SIBLY, D.Sc., LL.D.

PRESIDENT OF THE COUNCIL—ALFRED PALMER, D.Sc.

TREASURER—SIR WILLIAM A. MOUNT, Bart., C.B.E., M.A.

REGISTRAR—H. KNAPMAN, M.A.

DEANS OF FACULTIES. See under "General Information"—Faculties.

LIBRARIAN—S. A. PEYTON.

BURSAR—J. S. SIMPSON, B.Sc.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture, etc., v. infra*

*Art* (School of Art)

Seaby, A. W. Prof.

7 Teachers in Drawing and  
Painting, Design, Modelling,  
Handicrafts.

### *Botany, v. also Agr.*

Matthews, J. R., M.A., F.R.S.E.

Saxton, W. T., M.A. Camb., F.L.S. Prof.

Pranker, Theodora L., B.Sc. Lectr.

Lond., F.L.S. Lectr.

### *Chemistry, v. also Agr.* [Prof.

Bassett, H., D.Sc. Lond., Ph.D.

Mun., D. ès Sc. Nancy, F.I.C.

Wynne-Jones, W. F. K., B.Sc. Ox.,

B.Sc. Wales Lectr.

Dodgson, J. W., B.Sc. Lond.,

A.I.C. Lectr.

Maxted, D. R., B.Sc. Lond.,

A.R.C.S. Lectr.

Durrant, R. G., M.A. Ox.

Hon. Research Fellow.

A Sessional Teacher of Gas-Fitting

and Gas Supply

### *Classics*

Ure, P. N., M.A. Camb. Prof.

Haigh, W., M.A., B.Sc. Lond.

Lectr. (in German also).

Jolliffe, Norah C., M.A. Camb.

Simple, W. H., Ph.D. Camb., M.A. Lectr.

Belfast Lectr.

Woodcock, E. C., B.A. Camb.

Lectr.

Ure, Mrs. A. D., B.A. Lond.

Hon. Research Fellow.

### *Commerce*

Taylor, H., F.L.A.A. Lectr.

Coman, Grace Asst. Lectr.

1 Asst.

### *Dairying, v. infra*

### *Domestic Subjects*

Wood, Mrs. E. May

Lectr. in charge of Dept.

3 Assts. and a Teacher of Dress-

making and Needlework.

1 Sessional Lectr. in Hygiene.

### *Economics*

Buer, Mabel C., D.Sc. (Econ.)

Lond. Lectr.

### *Education*

Cooke, H. S., M.A. Ox. and Cape [Sen. Lectr.

Campbell, Isabella E., M.A., B.Ed.

Edin. Lectr.

Glasen, J. A., M.B.E., B.A. Lond.

Lectr.

Mitchell, W. F., M.A. Edin. Lectr.

Smith, E., B.Litt. Ox., M.A., B.Sc.  
Liv. Lectr.

Wolters, A. W. P. (v. Psychology)  
Lectr.

2 Instrs. in Physical Training.

*English Language & Lit.* [Prof.

Dewar, R., M.A. Glas. (E. Lit.)

Morley, Edith J., Hon. M.A. Ox.  
(E. Lang.) Prof.

Davies, Mrs. C., B.A., Ph.D. Lond.  
Lectr.

Dyson, H. V. D., B.Litt., M.A.  
Ox. Lectr.

*French* [Prof.

Desseignet, J., Ag. de l'U. Paris

Gerson, G. H., B.A. Camb. Lectr.

Paton, Dorothea A., M.A. Ox.  
Lectr.

Salmon, Yvonne, M.A., L. ès L.  
Lectr.

*Geography* [Lectr.

Gilbert, E. W., B.Litt., M.A. Ox.

Miller, A. A., M.Sc. Lond. Lectr.

Morris, W. F., B.A. Lond.  
Sessional Asst. Lectr.

*Geology*

Hawkins, H. L., D.Sc. Manc.,  
F.G.S. Prof.

Wager, L. R., B.A. Camb., B.Sc.  
Lond. Lectr.

*German*, v. also Classics

Norman, F., M.A. Lond. Lectr.

*History, Modern* [Prof.

Stenton, F. M., M.A. Ox., F.B.A.

Childs, W. M., M.A., D.Litt. Ox.,  
LL.D. Liv. Hon. Prof.

Sacret, J. H., M.A. Ox. Lectr.

Stenton, Mrs. D. M., B.A. Lond.  
Lectr.

Peyton, S. A. Asst. Lectr.

*Mathematics*

Neville, E. H., M.A. Camb., B.Sc.  
Lond. Prof.

Ashcroft, Lucy, M.A. Dub. Lectr.

Broadbent, T. A. A., M.A. Camb.  
Lectr.

Clatworthy, J. P., B.Sc. Lond.

Lectr.

Ternouth, Elsie J., M.A. Glas.

Lectr.

Bowler, F. T., B.Sc. (Eng.) Lond.

(Applied Mech.)

Sessional Asst. Lectr.

3 Teachers of Machine Drawing  
and Applied Mechanics.

*Music*

Allen, Sir Hugh P., K.C.V.O., M.A.

Camb., D.Mus. Ox., Mus.D.

Camb., D.Litt. Shef.

Visitor of School.

Stanton, W. K., M.A., B.Mus. Ox.

Lectr. in Charge of School.

14 Teachers.

*Philosophy*

de Burgh, W. G., M.A. Ox. Prof.

Hodges, H. A., B.A. Ox. Lectr.

*Physics*

Crowther, J. A., M.A., Sc.D.

Camb., F.Inst.P. Prof.

Bond, W. N., M.A. Camb., D.Sc.,

B.Sc. (Eng.) Lond., A.R.C.S.,

F.Inst.P. Lectr.

Pearson, R. L. Lectr.

Thomson, J., M.A., B.Sc., Ph.D.

Glas. Lectr.

*Psychology*

Wolters, A. W. P., M.A. Lond.

(also Lectr. in Educn.) Lectr.

*Spanish* [Sessional Teacher.

Edwards, P. C., M.A. Camb.

*Vet. Hygiene*, v. Agric.

*Zoology*

Cole, F. J., D.Sc. Ox., F.R.S. Prof.

Eales, Nellie B., D.Sc. Lond. Lectr.

A Museum Asst.

*Agriculture and Horticulture*

*Agriculture*

Pennington, S., B.Sc. Edin.,

M.R.C.V.S. Prof.

Campbell, K. W. D., B.Sc. Durh.

Lectr.

- Thomas, E., B.Litt. Ox., B.Sc. Wales  
Lectr. & Advisory Officer (Agric. Economics).  
County Organizer and 5 Instrs. for Berkshire.
- Agr. Bacteriology*, v. also Dairy B.  
Mason, Grace H., N.D.D. Lectr.
- Agr. Botany*  
Percival, J., M.A., Sc.D. Camb., F.L.S. Prof.  
Erith, Adela G., B.Sc., Ph.D. Lond. Lectr.  
Waldie, J. S. L., B.Sc. Edin. Lectr.
- 1 Asst.
- Agricultural Chemistry*  
Neville, H. A. D., M.A. Camb., B.Sc. Lond., F.I.C. Prof.  
Bee, J. W., B.A. Camb. Lectr.  
Nicholson, H. H., M.A. Camb. Lectr. and Advisory Officer.  
Rowland, S. J., B.Sc. (Agric.) Lectr.  
Thompson, J., Ph.D. Heid., F.I.C. Analyst.
- Building Construct., etc.*  
Hitchins, W. W., L.R.I.B.A., P.A.S.I. Lectr.
- 1 Asst.
- Dairying*  
Todd, A. Lectr.  
3 Assts.
- Dairy Bacteriology*  
Williams, R. Stenhouse, M.B., C.M., B.Sc. Edin., D.P.H. Camb. Research Prof.
- Mattick, A. T. R., B.Sc. Lond. Lectr. (Dairy Hygiene).  
Maddock, E. C. G., C.I.E., M.D., Ch.B. Edin., D.P.H. Camb., D.T.M. Liv.  
Hon. Research Fellow.  
1 Adviser and 1 Asst.
- Dairy Chemistry*  
Golding, J., F.I.C. Research Chemist.  
Davies, W. L., Ph.D. Camb., M.Sc. Wales, N.D.A., F.I.C. Asst. for Research.  
Mattick, Mrs. E. C. V., M.Sc., Ph.D. Bris. Asst. for Research.
- Dairy Husbandry*  
Mackintosh, J., O.B.E., N.D.A., N.D.D. Head of Research Section and Lectr.
- 1 Asst.
- Economic Entomologist*  
Jary, S. G., B.A. Camb.
- Economic Mycologist*  
Buddin, W., M.A. Camb.
- Horticulture*  
Cobb, A. J. Lectr. and Instr.  
3 Assts.
- Machinery*  
Passmore, J. B., M.Sc., B.Sc. Lond. Lectr.
- Veterinary Hygiene*  
Male, G. P., M.R.C.V.S. Lectr.
- University Extension**  
Tutors, 3.

BRITISH DAIRY INSTITUTE (occupying a building on the University site and controlled by a committee representing the British Dairy Farmers' Assocn. and the University). Manager and Chief Instructor—A. Todd. 2 Asst. Instrs.

THE NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING, Shinfield, near Reading, established by the Ministry of Agric. and Fisheries in 1912, forms part of the University. It is governed by a Board consisting of representatives of the Ministries of Agric. and Health, R.A.S. of England, British Dairy Farmers' Assocn., Nat. Farmers' Union, etc. It has four Depts.—Dairy Bacteriology, Dairy Chemistry, Dairy Husbandry, and Dairying.

## GENERAL INFORMATION

The University was established by Royal Charter, March 17, 1926. For early history, see *Year Book* for 1929.

**LIBRARY**, 49,000 vols., including Overstone collection (7500 vols.) of books on Polit. Econ. (pubd. before 1850), English and French thought during eighteenth century, and topography (especially Northamptonshire); 12,000 pamphlets. 200 periodicals are received. **MUSEUMS**: Zool. and Hist. and Archæol. **LABORATORIES**: Bacteriol., Bot., Chem., Geol., Mech., Physics, Psych., Zool. Fine Art Studios. School of Music. Agricultural Machinery Hall. Two farms (359 and 141 acres) and Horticultural Station.

**FACULTIES**: (1) Letters, (2) Science, (3) Agric. and Horticulture (associated with which are the National Inst. for Research in Dairying and British Dairy Inst.).

**DEANS**: (1) Prof. de Burgh (Philos.); (2) Prof. Bassett (Chem.); (3) Prof. Neville (Ag. Chem.).

**SCHOOLS**: Art, Music.

**DEPARTMENT**: Domestic subjects.

**ADMISSION**. Candidates for Degree courses must matriculate before admission (see Appendix XX.). Entrance examn. for Diploma courses in Commerce, Agric., Dairying, Hortic., Domestic subjects.

**DEGREES**: B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Sc. (Agric.), B.Sc. (Dairying), B.Sc. (Hortic.); Ph.D. The M.Sc. and D.Sc. are obtainable in the Faculty of Agriculture and Horticulture as well as in the Faculty of Science. The Senate may decline to admit to a degree course a person whose place of residence during term is at too great a distance from Reading, and the degree of Bachelor may not be granted to a candidate whose record as a student of the University is not deemed satisfactory.

The Charter provides that degrees representing proficiency in technical subjects shall not be conferred without proper security for testing the scientific or general knowledge underlying technical attainments.

An *oral examination* forms part of the Final examn. for a B.A. degree with honours, except in Mathematics, and, at the discretion of the Examiners, may form part of the Intermediate or of the Final Examn. for a Pass B.A. degree, or of the Intermediate or Final Examn. for the B.Sc. In the Final Examn. for the B.Sc. candidates are examined upon either a *General Course of study* (3 subjects) or a special course; honours can be obtained in either case. The Final Examn. (Special) is ordinarily taken after passing the Final Examn. (General). The course for the degree with honours extends over 4 years in Agriculture and in certain cases in Arts and in Science.

**UNIVERSITY DIPLOMA COURSES** are as follows: 2 yrs.—Agric., Commerce, Dairying, Domestic subjects, Hortic.; 3 yrs.—Fine Art, Music, Distinction in Agric., Dairying, Domestic subjects, or Hortic. Univ. Diploma Course (post-graduate) in Education (1 yr.).

**OTHER COURSES** for Univ. Certifs. in Agric., Dairying (6 mos.), Commerce, Domestic subjects, Horticulture, Secretarial subjects (1 yr.), Metal Work, Wood Carving, Woodwork, Embroidery, Leather Work, Weaving, Writing and Illuminating (2 yrs.), Dairy Factory Management (10 weeks); for the Pre-Medical examn. of the R.C.P. and R.C.S. (1 yr.), British Dairy Farmers' Assocn. examns. (6 mos.), L.R.A.M., A.R.C.M., etc.

**TUTORIAL SUPERVISION.** Every student following one of the organized day courses or a specially arranged day course involving frequent attendance at the Univ. for at least 2 terms is placed under the supervision of a tutor.

**A RESEARCH BOARD** promotes research and original work in the Univ. (apart from the National Institute for Research in Dairying). It administers funds entrusted to it for the purpose, and issues an annual record and report.

**TERMS.** 3, each of 10 weeks, the first beginning on the first Friday after Oct. 3. Vacations of 4 weeks at Christmas and 5 weeks at Easter.

**RESIDENCE.** All students following full courses of day study, unless residing with parents or guardians, are ordinarily required to reside in a University Hall of Residence. There are two Halls (Wantage and St. Patrick's) for men, and four (St. Andrew's, Wessex, St. George's, and Ashdown) for women students. Full-time day students living in recognized houses, or at home in or near Reading, are associated in St. David's Hall, a non-residential club.

**SCHOLARSHIPS OPEN TO GRADUATES.** Offered annually by the Univ.—£100; "Ernest Ridley"—£50 plus tuition fees, for one year, renewable for a second year.

**FEES.** For Tuition: Ph.D. course—£5 or £7 p.a.; M.A. course—£5 p.a.; M.Sc. course—£7 p.a.; Bachelor's Degree course—Arts, £30 p.a.; Sc. or Agric. or Dairying or Hortic., £35 p.a.; Diploma course—Commerce, £25 p.a.; Agric. or Hortic. or Domestic subjects, £30 p.a.; Dairying, £35 for 1st, £41 for 2nd year; Fine Arts, £18; Certif. course—£18 to £30. Tuition fees are in most cases reduced by 25 per cent. to students from neighbouring counties, under certain conditions.

**EXPENSES.** Total average necessary yearly expenses (excluding travelling, clothing, and personal laundry) about £120 p.a., namely: (i.) Registration, matriculation, cap and gown, tuition, examination, and graduation, average £38 p.a. for a degree student; for diploma or certificate student somewhat less. (ii.) Maintenance, including board and lodging in Halls or lodgings and sanatorium fee, maximum for 30 weeks about £77 for a man and £69 for a woman student. (iii.) Personal, including subscription to Union (3 gs. p.a.), and cost of books and stationery, widely variable, say £6 p.a.

Courses of lectures open to the public are ordinarily charged for at 15s. per term (30s. per session) for each subject (one hour per week).

**STUDENT ORGANIZATIONS:** Students' Union and Representative Council. An Old Students' Association meets annually at the Univ. at Whitsuntide.

**UNIVERSITY EXTENSION, ETC.** Agriculturists are helped by correspondence, visits, local lectures, examination of diseased plants, etc. Evening classes are held in Machine and Building Constr., Builders' Quantities, and most of the subjects in which Day courses are provided. Tutorial classes are held in connexion with the W.E.A.

**PUBLICATIONS.** *Calendar*; *University Gazette*; General Prospectus (including illustrations and plans); Departmental Prospectuses (Degree courses, Training of Teachers, Commerce and Secretarial, Agriculture, etc., Fine Arts and Handicrafts, Music, Domestic subjects); Scholarships and Exhibitions; Guide to Evening Classes, 2d.

## THE YEAR 1928-29

Dr. T. Franklin Sibly (hitherto Principal of the Univ. of London) has been appointed Vice-Chancellor in succession to Dr. W. M. Childs, retired. Dr.

Childs, as Hon. Prof. of Mod. History, retains his membership of the Academic Staff.

**GRANTS.** Additional grants, amounting to £1250 per annum, have been promised to the University by County and Borough Councils.

**NEW BUILDINGS.** Committees have been appointed to organize the appeal for funds and to supervise the planning of new buildings. Colonel G. K. Walker, C.I.E., O.B.E., F.R.C.V.S., is Secretary to the Appeal Fund. Miss S. R. Courtauld has provided £9000 for a Geology Building, the erection of which has already begun. Other donations to the fund include £1000 from Imperial Chemical Industries, Ltd., and an anonymous gift of £1000, which may, under certain conditions, be increased to £5000. The ultimate cost of the proposed scheme of extension is estimated at £200,000, of which £145,000 may be assigned to the cost of the actual buildings and £55,000 to an endowment fund to meet increased maintenance charges.

**BENEFACTIONS.** Other gifts to the Univ. during the Session include a choir organ, to complete the organ in the Hall of the Univ., from the Old Students' Assn.; a legacy of £500 from the late Mrs. Palmer of Marlston; a gift of apparatus for the Physics Lab. from Mrs. Schunck; contributions to a fund of £500 for the purchase of books for the libraries in the Univ. Halls; grants amounting to £150 from the Friends of the Univ.; a donation of £100 from Mr. R. H. Mardon for the Univ. Library; and a donation of £75 to the Prince's Meadow Appeal Fund.

**RESIGNATIONS.** Dr. W. M. Childs, Principal and Vice-Chancellor. Dr. W. Stiles, F.R.S., on appointment as Prof. of Botany, Birmingham Univ.

**STUDENTS.** Full-time: total, 615, including 18 graduates. Part-time: total, 896, including 9 graduates.

**DEGREES.** B.A., 55; B.Sc., 24; B.Sc. (Agric.), 13; B.Sc. (Dairying), 3; B.Sc. (Hortic.), 6; M.Sc., 5; Ph.D., 1.

# THE UNIVERSITY OF SHEFFIELD

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Hon. the MARQUESS OF CREWE, K.G.

PRO-CHANCELLORS—Lt.-Col. H. K. STEPHENSON, D.S.O., D.L., LL.D. ;  
Sir WM. E. CLEGG, C.B.E., LL.D.

VICE-CHANCELLOR—Sir W. HENRY HADOW, C.B.E., M.A., D.Mus., LL.D.

TREASURER—W. N. DREW, A.R.S.M., M.I.Chem.E.

DEANS OF FACULTIES. See under "General Information"—Faculties.

REGISTRAR—W. M. GIBBONS, O.B.E., M.A.

LIBRARIAN—A. P. HUNT, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Anatomy</i> [A. Jackson Prof.		Glasstone, S., Ph.D., D.Sc. Lond.
Patten, C. J., M.A., M.D., Sc.D.		(Phys. C.) Lectr.
Dub., F.R.A.I.		Turner, Emily G., M.Sc.
Naish, Mrs. Lucy, M.B. Lond.		Asst. Lectr.
(Osteology) Lectr.		Bennett, Dorothy M., M.Sc.
MacConaill, M. A., M.B., B.Ch.,		Asst. Lectr.
B.A.O., M.Sc. Belfast		Smith, T. B., B.Sc. Lond. „ „
Senior Demr.		Chapman, A. W., D.Sc. Lond.
Yates, H. B., M.A., M.B. Camb.,		Asst. Lectr.
F.R.C.S. Demr.		Hawkins, F. S., B.Sc., Ph.D.
		Lond. Asst. Lectr.
<i>Architecture</i>		
Welsh, S., M.A., B.Arch. Liv.,		<i>Civic Art</i>
A.R.I.B.A. Lectr.		..... Prof.
I Hon. Lectr. for Evening		
Courses.		<i>Classics</i>
<i>Art, v. Civic</i>		Forster, E. S., M.B.E., M.A. Ox.,
		F.S.A. (Greek) Prof.
<i>Biology, v. Zool. and Botany</i>		Summers, W. C., M.A. Camb.
		(Latin) Firth Prof.
<i>Botany</i>		Whitehead, Florence, M.A. Manc.
Bentley, B. H., M.A. Ox. Lectr.		Lectr.
Lind, Edna M., B.Sc., Ph.D. Liv.		Tredennick, G. H. P. P., M.A.
Asst. Lectr.		Camb. Lectr.
<i>Chemistry</i>		<i>Dentistry, v. infra</i>
Wynne, W. P., D.Sc. Lond.,		
F.R.S. Firth Prof.		<i>Economics</i>
Bennett, G. M., M.A. Camb.,		Knoop, D., M.A. Manc. Prof.
B.A., Ph.D. Lond.		Jones, G. P., M.A. Liv.
Lectr. (Organic C.).		Lectr. (Econ. Hist.).

Pool, A. G., B.Sc. (Econ.) Lond.  
Asst. Lectr.

### *Education*

Turnbull, G. H., M.A. Liv., Ph.D.  
Bonn Prof.

Lectrs. :

Bradford, E. J. G., M.Sc. Lond.  
King, Etheldreda, B.A. Lond.  
Thompson, J. Ridley, D.Sc. Durh.  
Halloran, J. H., M.A. Leeds.  
Dickinson, Olive D., M.Sc.

### *Engineering, Civil*

Husband, Joseph, M.Eng. Prof.  
Snelgrove, E. C., M.I.Struct.E.,  
M. French S.C.E. Lectr.  
Jenkins, J., M.Sc. Belf.  
Asst. Lectr.

### *Engineering, Elec.*

Wall, T. F., D.Sc. Vict., D.Eng.  
Liv. Lectr.

Asst. Lectrs. :

Hainsworth, C. H.  
Joyce, T. C., B.Sc. Lond. & Bris.  
Barratt, H. M., B.Sc.Tech. Manc.  
& Demr.

### *Engineering, Mechanical*

Lea, F. C., O.B.E., D.Sc. Lond.,  
A.R.C.S. Prof.  
Boulden, F., B.Sc. Lond., M.Eng.,  
Senr. Lectr.  
Kershaw, J. W., M.Sc. Manc.,  
M.Eng. Senr. Lectr.  
Hibbins, W. G., B.Sc. Lond.,  
B.Eng. Lectr.  
Waite, C. W., B.Sc. Lond. Lectr.  
Davies, H. J., B.Sc. Lond. Lectr.

Asst. Lectrs. :

Turner, F. C., M.Eng.  
Burnet, W. & Demr.  
Parker, C. F., B.Sc. Lond.

### *Engineering, Mining*

Statham, I. C. F., B.Eng. Prof.  
Bevan, E., B.Sc. (Min.) Lond.  
Lectr.  
Sinclair, J., M.Eng. Lectr.  
Cooke, W. E., M.Eng.  
Research Asst.

### *English Lang. and Lit.*

Evans, B. I., M.A. Lond.  
Prof. (Eng. Lit.).  
Jones, J. D., M.A., B.A. Lond.,  
Ph.D. Berl.  
Lectr. (Eng. Lang.).  
White, H. M. O., M.A. Dub. Lectr.  
Hammer, D., M.A. Liv. Asst. Lectr.

### *French*

Baker, A. T., Litt.D. Camb.,  
Ph.D. Heid. Prof.  
Clapton, G. T., M.A. Lectr.  
Boase, A. M., M.A. Ox. Lectr.  
Truffert, A., L. ès L. Paris  
Asst. Lectr.

### *Geography*

Brown, R. N. Rudmose, D.Sc.  
Aberd. Lectr.  
Garnett, Alice, B.A. Lond.  
Asst. Lectr.

### *Geology*

[Sorby Prof.  
Fearnside, W. G., M.A. Camb.  
Wilcockson, W. H., M.A. Camb.  
Lectr.  
Lewis, H. P., M.A. Camb.  
(Asst. Lectr. in Mining G.).

### *German*

Willoughby, L. A., D.Lit. Lond.,  
Ph.D. Vienna Lectr.  
Closs, A., Ph.D. Graz.  
Asst. Lectr.

### *History*

Appleton, H. W., M.A. Ox.  
Prof. (Ancient H.).  
Black, J. B., M.A. Glas. and Ox.  
Prof. (Mod. H.).  
Ward, E. H., M.A. Camb.  
Lectr. (Eccl. H.).  
Lewis, N. B., M.A., Ph.D. Manc.  
Lectr. (Modern H.).  
Tyler, J. E., M.A. Shef. and Ox.  
Lectr. (Modern H.).

### *Law*

[Prof.  
Trotter, W. F., K.C. (Scot.), LL.D.,  
M.A. Camb., Barr.-at-Law  
Lias, W. J. (Judge), M.A. Camb.  
Prof. Internat. Law.

Metcalf, O. K., M.A., LL.M. (Pub.  
and Com. L.), Barr.-at-Law

Lectr.

Stone, H., LL.M. Asst. Lectr.

Downing, F., A.C.A.

Tutor in Trust Accounts, etc.

### *Mathematics*

Daniell, P. J., M.A., Sc.D. Camb.  
Town Trust Prof.

Stewart, C. A., M.A., D.Sc. Glas.,  
B.A. Camb. Lectr.

Saynor-Thompson, R., B.Sc. (for  
Engin.) Lectr.

Cox, R. R. S., M.A. Camb.  
Lectr. and Curator of  
Observatory.

Asst. Lectrs. :

Cooper, R., B.A., Ph.D. Camb.

Slocombe, C. T., M.Sc. Wales.

### *Medicine, v. infra*

### *Metallurgy, v. also Tech.*

Desch, C. H., D.Sc. Lond., Ph.D.  
Wurz., F.R.S. Prof.

Knowles, F. K., M.Met. (also Lectr.  
in Dental M.) Sen. Lectr.

Ibbotson, F., B.Sc. Lond., D.Met.,  
F.R.C.S.I. (also Lectr. in  
Dental M.) Sen. Lectr.

Wreaks, J. H., B.Met. Lectr.

Orme, F., M.Met. Lectr.

Rees, W. J., B.Sc. Tech.  
Lectr. (Refractories).

..... Lectr. (*Electro-M.*).

Percival, R. T. Demr.

Gregory, E. Demr.

### *Mining, v. Engin., Geol.*

### *Music*

Shera, F. H., M.A., Mus.M. Camb.  
James Rossiter Hoyle Prof.

### *Philosophy*

Laing, B. M., M.A., D.Litt. Aberd. [Lectr.

### *Physics*

Milner, S. R., D.Sc. Lond. and  
Bris., F.R.S. Prof.

Lawson, R. W., D.Sc. Durh.  
Lectr.

Clarke, J. R., M.Sc.

Lectr.

Asst. Lectrs. :

Evans, Morgan H., B.Sc. Wales

Cameron, W. H. B., M.Sc. Belf.

Chalklin, F. C., B.Sc., Ph.D.  
Lond.

### *Physiology*

Leathes, J. B., M.A., M.B., B.Ch.  
Ox., F.R.C.S., F.R.C.P.,  
F.R.S. Prof.

Eaves, Eliz. C., B.Sc., M.D., B.S.,  
D.P.M. Lond. Lectr.

Imrie, C. G., M.D. Westm. Ont.,  
M.R.C.P. Lectr.

Clark, G. A., M.D. Durh. Lectr.

Platt, Robert, M.D. Demr.

### *Public Health, v. Medicine*

### *Russian*

Birkett, G. A., M.A. Liv. Lectr.

### *Spanish*

Birch, J. N., B.A. Lond. [Hughes Lectr.

de Fenn, Beatriz, L. ès L. Asst. Lectr.

### *Technology, Fuel*

Wheeler, R. V., D.Sc. Manc. Prof.

Batley, W. A., M.Sc. Manc. Lectr.

Wigginton, R., B.Sc. Lond.,  
A.R.C.S. Lectr.

Beet, A. E., B.Met. Demr.

Rees, W. J., B.Sc. Tech.

Lectr. in Refractories.

Mott, R. A., M.Sc. Leeds

Research Asst.

### *Technology, Glass*

Turner, W. E. S., O.B.E., D.Sc.

Lond., M.Sc. Birm. Prof.

Parkin, M., M.Sc. Lectr.

Research Assts. :

Dimbleby, Violet, M.Sc.

Winks, F., M.Sc. Tech.

Warren, W. J. A., B.Sc. Durh.

Lectr.

### *Zoology*

Cannon, H. G., M.A. Camb., D.Sc.

Lond., F.R.S.E. Prof.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

*Dermatology*

Hallam, A. R., M.D., Ch.B. Lectr.  
2 Clinical Teachers.

*Diseases of Children*

Leader, H., M.B. Lond. Lectr.  
4 other Clin. Teachers.

*Dis. of Ear, Nose, and Throat*

Townrow, V., M.B., B.S. Lond.,  
F.R.C.S. Lectr.  
..... Lectr. (Aural Anat.).

*Diseases, Infectious*

Williams, E. H., M.D. Brus.,  
D.P.H. Lectr.

*Diseases, Mental* [Lectr.

Vincent, W., M.D., B.S. Durh.  
1 other Clin. Teacher.

*Forensic Medicine*

Webster, J. M., M.A., M.B., Ch.B.,  
B.Sc. St. And., F.R.C.S. Lectr.

*History of Medicine*

Wilkinson, G., B.A., M.B., B.C.  
Camb., F.R.C.S. Lectr.

*Medicine*

Hall, A. J., M.A., M.D. Camb.,  
F.R.C.P. Prof.  
Naish, A. E., M.A., M.B., B.C.  
Camb., F.R.C.P. Lectr.  
Barnes, A. E., M.B. Lond., M.B.,  
Ch.B., F.R.C.P. Lectr.  
Skinner, E. F., M.A., M.B., B.C.  
Camb., F.R.C.P. Tutor.  
3 other Clin. Teachers.

*Obstetrics and Gynaecology*

Phillips, Miles H., M.B., B.S.  
Lond., F.R.C.S. Prof.  
King, W. W., M.B., Ch.B. Bris.,  
F.R.C.S. Lectr.  
Stacey, J. E., M.D., B.S. Lond.,  
M.B., Ch.B., F.R.C.S. Lectr. (Gyn. Anat.).  
1 other Clinical Teacher.

*Ophthalmology*

Hay, Percival, M.D. Edin. Lectr.  
Mackie, E. G., M.A., M.B., Ch.B.  
St. And., D.O.M.S.  
Lectr. (Ophthal. Anat.).  
3 other Clin. Teachers.

*Pathology*, v. also Surg.

Douglas, J. S. C., M.A., D.M.,  
B.Ch. Ox., M.Sc. Birm.  
Joseph Hunter Prof.  
Wilson, J. B. Ferguson, M.S.  
Lond., F.R.C.S.  
Lectr. (Surgical P.) and  
Asst. Cur. of Path.  
Museum.

Kirk, Florence S., M.B., Ch.B.  
Glas., D.P.H. Camb. Demr.  
Paine, C. G., M.B., B.S. Lond.,  
M.R.C.S., L.R.C.P. Demr.  
Stone, Doris M., M.D. Lond.,  
D.P.H. Demr.  
Edington, J. W., M.D., D.P.H.  
Edin. Dir. of P.H. Bact. Lab.  
Lynn, A., M.B., Ch.B., B.A.O.  
Belf. Asst. Bacteriologist.  
..... Demr. in Med. Path.

*Pharmacology*

Mellanby, E., M.A., M.D. Camb.,  
F.R.C.P., F.R.S. Prof.  
Harrison, D. C., B.Sc. Lond.,  
Ph.D. Camb. Lectr.  
6 Research Assts.

*Public Health*

Wynne, F. E., M.B., B.Ch. Dub.,  
D.P.H. Manc. Prof.  
Rennie, J., M.D. Aberd., D.P.H.  
Demr.

*Radiology*

Grout, J. L., F.R.C.S. Edin.,  
D.M.R.E. Camb. Lectr.

*Surgery*

..... Prof.  
Simpson, G., F.R.C.S. Lectr.  
Cuff, A., B.A., M.B., B.C. Camb.,  
F.R.C.S. Lectr.

- Finch, E. F., M.D., M.S. Lond.,  
F.R.C.S.; Asst. Cur. of Path.  
Museum and Lectr. in S.  
Path. Lectr.
- 6 other Clin. Teachers.
- Tuberculosis* [Lectr.
- Rennie, J., M.D. Aberd., D.P.H.
- Vaccination*
- Chisholm, J., M.B., Ch.B. Edin.,  
F.R.C.S. (and Tutor in Ob-  
stetrics) Lectr.
- Anæsthetics*
- Holroyd, J. B. H., M.R.C.S.,  
L.R.C.P.
- Marshall, G. G., M.B., Ch.B.
- Mart, W. D., M.R.C.S., L.R.C.P.
- Birks, F. J., M.B., Ch.B.
- Robertson, R. K., M.A., M.B.,  
Ch.B.
- Wiley, H. L., M.B., B.Ch.
- Froggatt, G. H., M.R.C.S.,  
L.R.C.P., L.D.S., R.C.S. (D.  
Mech. and D. Surg.) Lectr.
- Stokes, P. S., L.D.S., R.C.S. (D.  
Surg.) Lectr.
- Hull, J., L.D.S. (Dent. Surg.)  
Asst. Lectr.
- Watson, C. T., L.D.S., R.C.S.  
(Orthod. and Op. Dent. Surg.)  
Lectr.
- Barron, D. C., M.D., Ch.B. Edin.  
(Med. for Dent. Students)  
Lectr.
- Skerritt, J. H., L.D.S., R.C.S.  
(Op. Dent. Surg.) Lectr.
- Adams, J., M.B., B.Ch.  
Anæsthetist.
- Woodcock, R., L.D.S., R.C.S.  
Demr. (Dent. Hist.).
- 2 other Clin. Dental Teachers.

## Dental Science, v. also Met.

Law, W. J., L.D.S., R.C.S. (D.  
Anat. and Physiol.) Lectr.

## Adult Education

Tutors: 6 members of the Staff  
and 10 others.

## AFFILIATED INSTITUTIONS

BARNLEY TECHNICAL SCHOOL, SCUNTHORPE CENTRAL SCHOOL AND EVENING TECHNICAL SCHOOL, LINCOLN MUNICIPAL TECHNICAL SCHOOL, AND CHESTERFIELD TECHNICAL COLLEGE. Students proceeding from "Affiliated Institutions" to the Univ. to take courses for an Honours degree or Associate-ship in the Facs. of Engineering or Metallurgy may receive certain concessions.

## GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities.

LIBRARY, 93,000 vols. and pamphlets, including collections of books on alchemy and early history of chemistry (J. Spear Parker's), facsimiles of Greek papyri (J. H. Moulton's), literature relating to Polychæte worms (A. T. Watson's), and seventeenth-century tracts, plays, etc. (Sir Chas. Firth's); 352 current periodicals. Also Special Applied Science and Glass Technology departmental collections.

RESEARCH DEPARTMENT LABORATORIES include: Engineering (mech., elec., civ., and mining), with power plant, air-compressors, hydraulic appliances, testing machines, special apparatus for high temperature and repeated stress testing, the testing of cement and concrete and for measuring earth pressures,

high-speed steel tool-testing lathe, etc., the machine-tool branch being a special feature; Jonas lab. specially equipped for researches in connexion with materials; Edgar Allen lab. specially equipped for electrical and magnetic research work; labs. equipped with alternating current and direct current motors and generators for work on lighting, traction, power transmission, electricity applied to mining, electro-chemistry, apparatus for magnetic, photometric, and meter testing; high-frequency oscillographs (Duddell and Cathode Ray); Flame-proof testing lab. in Mining Dept. for testing electrical apparatus; Metallurgical, with plant for experimental melting of steel, including 2-ton Siemens open hearth furnace;  $\frac{1}{2}$ -ton electric arc furnace, cupola, and Ajax-Northrup high-frequency induction furnace, crucible steel-melting house, and equipment for thermal, micrographic, X-ray, dilatometric and other physical investigations; specially equipped lab. for electro-deposition of metals; lab. with rolling mill and draw bench for research on cold-working of steel; Non-Ferrous, equipped for the lighter Sheffield trades; Glass Technology, large-scale furnaces and equipment for melting and working glass and labs. specially fitted up for systematic research on it; Fuel Technology, including an experimental gas-producer, run in connexion with the steel-melting furnace of the metallurgical dept., coke-testing apparatus, and specially equipped labs. for research on coal, coke, and gaseous explosions.

OBSERVATORY with  $6\frac{1}{2}$ " equatorial telescope and  $2\frac{1}{2}$ " transit instrument. HOSPITALS available for clinics include 2 general (840 beds), 3 special (917 beds), and Mental Hospital (1900 beds).

FACULTIES. (1) Arts, (2) Pure Science, (3) Medicine (including the Dental Dept.), (4) Law, (5) Engineering (Depts. of Mech., Elec., Civ., and Mining E., Fuel Tech., Glass Tech.), and (6) Metallurgy (Ferrous and Non-Ferrous). Deans: (1) Prof. Black (Mod. History), (2) Prof. Wynne (Chemistry), (3) Prof. Douglas (Pathology), (4) Prof. Trotter (Law), (5) Prof. F. C. Lea (Mech. Engineering), (6) Prof. Desch (Metallurgy). There is a Univ. Training Coll. Dept. for Teachers for elementary and secondary schools. *Dept. of Glass Technology*: The Dept. is unique in being the only specialized dept. devoted to glass in any Univ. in the Empire or U.S.A. Opportunities of research into the theory of the vitreous state and into problems of glass technology are provided for in a series of special labs. and in a large glass-melting dept. capable of producing experimental glasses in quantities from a few grams to 120 lb. *Faculty of Metallurgy*: The courses in Metallurgy include, in addition to the ordinary subjects of a metallurgical training, special instruction in the magnetic properties of steel, and practice in the use of large-scale plant. Post-graduate courses are arranged for graduates in Pure Science or in Metallurgy.

MATRICULATION. See Appendix XX.

DEGREE COURSES. 3 yrs.—B.A. (with Honours in Archit.—5 yrs., including time spent in an Architect's office), B.Sc., LL.B., B.Met. (3 yrs.' evening courses may be taken by students of 20 yrs. of age in lieu of the 2nd and 3rd yrs.' day courses), B.Eng. ("Sandwich" course 4 yrs.), B.Sc.Tech. ("Sandwich" course 4 yrs.); B.Eng. Honours and B.Sc.Tech. Honours, 3 yrs. after passing Intermed. Examn.;  $5\frac{1}{2}$  yrs. (including 3 in the Univ.)—M.B., Ch.B.;  $5\frac{1}{2}$  years—B.D.S. Graduates of a Univ. of the U.K. who wish to qualify for B.A. or B.Sc. with Hons., or LL.B., need, under certain conditions, only attend courses for 2 yrs., if they have pursued a course for 2 yrs. at some approved instn. Graduates of a Univ. of the British Empire who wish to qualify for B.Met., B.Eng., or B.Sc.Tech. with Honours need, under certain conditions, only attend courses for 2 years (for B.Eng., B.Sc.Tech. or B.Met. pass degree, one year) if they have pursued a course for 2 years at some approved institution.

Attendance on approved courses at a Univ. or Coll. recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univs. of Paris, Caen, Besançon, Grenoble, Leipsic, Freiburg, Göttingen, Tübingen, and Giessen have been recognized in the Faculty of Arts, and the Univ. contributes towards expenses of undergraduates spending a term there.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ. in touch with secondary educn.

**HIGHER DEGREES.** Obtainable by Bachelors of 1 yr.'s standing—M.A., M.Sc., LL.M., M.Eng., M.Sc.Tech., M.Met., M.D.S.; 3 yrs.—M.D., Ch.M.; 5 yrs.—Litt.D., D.Sc., LL.D., D.Eng., D.Sc.Tech., D.Met.; open under certain conditions to graduates in Arts of any Univ. of the U.K. after 2 yrs., to graduates of Facs. other than Arts after 3 yrs., of advanced study or research in Sheffield—M.A.; open, under certain conditions, to graduates in Science of any Univ. of the U.K. after 2 yrs. of advanced study or research in Sheffield—M.Sc.; open, under certain conditions, to graduates in Science or Engin. of any Univ. in U.K. after 2 yrs. of advanced study or research in the Univ. of Sheffield—M.Eng., M.Sc.Tech.; Ph.D., v. p. 18.

**DIPLOMAS.** Archit., 5 yrs. (including time spent in an Architect's office); Mod. Lang. Teaching (graduates in Arts or others of similar attainments in the Lang.), 1 yr. course; Educn. (after graduation), 1 yr. (special facilities for Pedagogical research); L.D.S., 4 yrs.; Glass Technology, 3 yrs. (for those with 2 yrs.' practical experience, 2 yrs.); Associateship in Engin., 3 yrs. (Works Pupils and Evening students, 4 yrs.); Associateship in Iron and Steel or Non-Ferrous Met., 3 yrs. (evening students, 4 yrs.); Mining, 3 yrs.' full-time course or 4 yrs.' "Sandwich" course (1st year, full-time at the Univ., Oct. to June inclusive; other years 6 mos. in Colliery and 6 in Univ.; exemption from first yr. obtainable through examn. The Dipl. enables a student to sit for the examn. for a colliery manager's certif. after 5 yrs.' total training, including the time spent in the Univ.); Fuel, 4 yrs. (for those with 1 yr.'s experience in a Works Fuel Dept., 3 yrs.); exemption from first yr. in special cases. Associateship in Fuel for Evening Students, 3 yrs.

*Certificates* in Architecture (3 yrs.); Works Pupils in Engin. (3 yrs.); Glass Technology (3 yrs., Saturday or Evening Students).

**FEES.** Matricn. £2. Registn. 21s. (Diploma courses, except L.D.S.) or 25s. Degree courses (except M.B., Ch.B., and B.D.S.). Tuition for degree courses (approximate): B.A., £23 : 15s. p.a.; B.Sc., £30 p.a.; LL.B., about 11 gs. p.a.; B.Eng., B.Met., B.Sc.Tech. (Glass or Fuel), 37½ gs. p.a.; "Sandwich" course for B.Eng., 4 yrs., £29 : 10s. p.a.; M.B., Ch.B., £215 : 6 : 8 for 5½ yrs.' course, including hosp. fees; B.D.S., £225 for 5 yrs.' course, including Mech. Dent. Examns., Intern., £2; Final, Pass Degree, £2; Honours, £3 (M.B., Ch.B. or B.D.S. examns., £6 each of 3). Bachelor's Degree Fee, £6.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Sorby Research Fellowship (administered by Royal Society) for research in Sheffield Labs., about £500 p.a. for 5 yrs., renewable; Ironmongers' Company Research Fellowship, £500 p.a. for research in the Cold-working of Steel and other Ferrous Metals; Ironmongers' Company Research Scholarships, £150 p.a. for research in the Cold-working of Steel and other Ferrous Metals; Alfred Tongue Scholp., £100 for 1 yr. for research in Engin., Met., or Chem; George Senior Fellowships, £125 p.a., 2 offered annually for research, one in Engin. and one in Met.; 4 Styring Research Scholps., £100 p.a. for research in ferrous and non-ferrous metals; Cutlers' Company Scholp., £100 p.a. for 2 yrs.; 2 Glass Research Fellowships, £175 and £200; Mechanics Institute Scholp., £50 p.a. for 1 yr., together with fees for courses

taken by the holder, for research in one of the Depts. of the Univ. ; Frederick Clifford Scholp., £50 p.a. for 2 yrs., for research in one of the Depts. of the Univ. ; Ezra Hounsfield Linley Post-graduate Scholp., £75 to £100 p.a. for 1 yr., for research in Engin. or Met. or Physics or Chem. ; Town Trustees Fellowship, £75 p.a. for 1 yr., for research in one of the Depts. of the Univ.

Herbert Hughes *Travelling Scholarships* in Spanish, £25 each, are for one month of Study in Spain during the long vacation.

**RESIDENCE, ETC.** Stephenson Hall, for men ; fees per session, £90. Univ. Halls for women, Oakholme, Tapton Cliffe, and Endcliffe House, £55 to £76 per session. A list of supervised Lodgings is maintained ; board and lodging cost from 30s. to 50s. per week. Athletics ground, 15½ acres. The Union Rep. Council takes a leading part in the Social life of the Univ. Separate Students' Unions for men and women.

There is an OLD STUDENTS' assocn. which publishes periodically lists giving addresses, occupations, honours, etc.

**UNIVERSITY EXTENSION** work includes Tutorial classes, Free Extension Lectures, Collaboration (for Adult Educn. Lectures) with the Sheff. Educn. Committee.

*Evening Classes* are conducted under the direction of the Senior Lecturer in Mechanical Engineering, in General Science, Engineering, Metallurgy, Mining, Fuel, and Glass Technology, Building and Manual Training, during the 6 months Oct. to April. 24 additional lecturers and teachers are employed on this work besides the regular staff. For notes on the extent to which these classes are recognized as qualifying for degrees, etc., v. *supra*—Degrees, Diplomas.

Evening Classes are also provided in French, Russian, Spanish, German, Philosophy, Econ., Secretarial Practice, Acctcy., Law, Music, and Archit.

**PUBLICATIONS.** *Calendar* (Oct.), 5s. ; *The Arrows*, a Chronicle publ. once each term, annual subs., 1s. 6d. ; Annual Report in Nov. ; Fac. and Training Coll. Prospectuses ; Scholarships pamphlet.

## THE YEAR 1928-29

**BENEFACTIONS.** The Worshipful Company of Ironmongers has established for a period of at least seven years a Research Fellowship and two Research Scholarships. The salary of the Research Fellow will be £500 p.a. and the value of each scholarship £150 p.a. ; Mrs. Parker Rhodes, £1000 for a Mining Scholarship in memory of her husband, the late Mr. Parker Rhodes, for many years associated with the Mining Industry of South Yorkshire ; the Prime Minister to the Fac. of Med., £1000 from the sum placed at his disposal by Lord Beaverbrook ; Emer. Prof. G. C. Moore Smith, a donation of £126 : 5 : 8 for an annual Prize in Engl. Lang. and Lit. ; the Sheffield Smelting Company, Ltd., £100.

**NEW LABORATORY, ETC.** The new laboratory for Research on the Cold-working of Steel and other Ferrous Metals was opened on July 6, 1929. This Dept. has been established by the Worshipful Company of Ironmongers, together with certain firms in the wire-drawing and cold-rolling industry ; the accommodation of the Dental Dept. at the Sheffield Royal Hospital has been greatly increased.

**CHANGES IN REGULATIONS.** Music added to subjects in the Inter. Examn. for the Ordinary B.A. Degree and to the secondary subjects for the Ordinary B.A. Degree. Under amended ordinances only Bachelors of Arts with First

or Second Class Hons., of not less than one yr.'s standing, may proceed to the M.A. without further examn. The alteration affects graduates of 1930 onwards. Under new ordinances and regulations the period of study required of a candidate for the degrees of M.B., Ch.B., in or after the session 1930-31, is 5½ years. The subjects for the Ordinary B.Eng. Degree have been arranged in 4 groups: (a) Civil Eng., (b) Mech. Eng., (c) Elect. Eng., (d) Combined Mech. and Elect. Eng., and candidates must select for the final examn. 5 subjects from one group. An Associateship in Fuel for Evening Students has been instituted.

**EXTRA-MURAL WORK.** During the year 44 Tutorial Classes have been held and 4 Univ. Extension Courses.

**VISITS OF TEACHERS.** Professor R. Galland, Bordeaux Univ., gave a lecture on "The Influence of English upon French Writers of the Nineteenth Century"; Prof. E. S. Forster gave a course of 24 lectures at Manchester Univ. on "Classical Sculpture"; and a lecture on "Sports and Games in Ancient Greece" to Durham Univ.; Prof. Arthur Hall gave 2 lectures on "Some of the Sequels of Epidemic Encephalitis (Lethargica)" at the Univ. of London.

**DEATH.** Mr. W. S. Kerr, F.R.C.S., Lecturer on Diseases of the Ear, Nose, and Throat.

**RESIGNATIONS.** Mr. W. McC. Stewart, Lectr. in French, appointed Lectr. at St. Andrews Univ.; Mr. N. M. H. Lightfoot, Asst. Lectr. in Maths., appointed Lectr. at Heriot-Watt Coll., Edinburgh; Dr. C. A. Weber, Asst. Lectr. in German; Mr. W. Vickers, Lectr. in Education, appointed Inspector of Schools; Mr. W. F. Wyatt, Asst. Lectr. in Chem., appointed Research Chemist to Messrs. Reckitt & Sons at Hull; Dr. A. J. Grove, Lectr. in Zool., appointed Lectr. in Zool. in East London Coll.; Dr. J. H. Cobb, Lectr. in Anat. and Applied Anat. (Surgical); Dr. A. G. Yates, Lectr. in Med Anat.; Dr. M. B. Lavery, Sen. Demr. in Anat.; Mr. T. B. Mouat, Tutor in Surg.; Dr. Clara D. Tingle, Demr. in Pathol.; Dr. D. Guest, Demr. in Pathol.; Dr. J. H. Blakelock, Asst. Bacteriologist; Dr. G. Carter, Lectr. in Foren. Med.; Mr. J. Renwick, Asst. Lectr. in Law; Mr. A. J. Chappell, Asst. Lectr. in Mech. Engin., appointed Lectr. in the Tech. Coll., Middlesbrough; Mr. H. W. Howes, Lectr. in Glass Techn., appointed Research Organizer at Messrs. Jobling & Co., Sunderland; Dr. D. Starkie, Research Asst. in Glass Techn., appointed to staff of Messrs. Metropolitan Vickers, Ltd.; Dr. C. J. Smith, Research Asst. in Metall., appointed to the staff of Royal Holloway Coll.

**FOREIGN STUDY.** Scholarships were awarded to four students to enable them to spend part of the summer vacation in Spain; leave was granted to students to attend lectures during the Easter Term at Paris (1), at Göttingen (3).

**HONORARY DEGREES.** LL.D.—The Rt. Hon. Viscount Lascelles, K.G., D.S.O. Mr. E. A. Ebbelwhite. M.A.—Mr. C. W. Cowen. M.Eng.—Mr. F. Lloyd.

**STUDENTS.** Full-time: total, 690, including 106 graduates. Part-time: total, 1831, including 11 graduates.

**DEGREES.** Ph.D., 11; M.A., 43; B.A., 61; M.Sc., 21; B.Sc., 32; M.D., 2; M.B., Ch.B., 8; LL.B., 1; B.Eng., 18; M.Eng., 4; B.Sc.Tech., 2; M.Met., 2; B.Met., 3.

# UNIVERSITY OF WALES, CARDIFF

VISITOR AND PROTECTOR—H.M. THE KING.

CHANCELLOR—H.R.H. THE PRINCE OF WALES.

PRO-CHANCELLOR—The Hon. W. N. BRUCE, C.B., LL.D.

VICE-CHANCELLOR—for biennium ending Aug. 31, 1931, Principal  
H. STUART JONES, M.A., D.Litt., F.B.A., University College of  
Wales, Aberystwyth.

WARDEN OF THE GUILD OF GRADUATES—FRANCES MARY REES, B.A.

CLERK OF THE GUILD OF GRADUATES—Prof. H. LEWIS, M.A.

TREASURER OF THE GUILD OF GRADUATES—F. E. REES, B.Sc.

DEAN OF THE FACULTY OF MEDICINE—Prof. A. W. SHEEN, C.B.E.,  
M.S., F.R.C.S.

DEAN OF DIVINITY—Rev. Prof. T. W. CHANCE, M.A., B.D.

REPRESENTATIVE IN PARLIAMENT—ERNEST EVANS, B.A., LL.B.

REGISTRAR—D. BRYNMOR ANTHONY, M.C., M.A., University Registry,  
Cathays Park, Cardiff.

SECRETARY TO THE COUNCIL—JENKIN JAMES, O.B.E., M.A.

## CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

UNIVERSITY COLLEGE OF S. WALES AND MONMOUTHSHIRE, CARDIFF.

UNIVERSITY COLLEGE OF SWANSEA.

## ASSOCIATED THEOLOGICAL COLLEGES

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH AND BALA. At *Aberystwyth*:  
Principal—H. Harris Hughes, B.A., B.D., Prof. of *Christian Doctrine and Ethics of Religion*. Other Profs.: J. Y. Evans, M.A., B.D., *Church Hist.*; W. Porter, M.A., D.Litt., *Hebrew and O.T. Exegesis*; W. R. Williams, M.A., *New T. Greek*; W. D. Davies, M.A., B.D., *Philosophy and History of Religion*. At *Bala*:  
Principal—David Phillips, M.A.; Prof. G. A. Edwards, M.A., *Past. Theol.*

BANGOR, The Baptist and Congregational Jt. School of Univ. Theol. Studies.  
Principal J. T. Evans, M.A., B.D., *Hebrew and O.T. Exegesis*; Principal J. M. Jones, M.A. Ox., B.A. Lond., *Ch. Hist.*; Professors J. Jenkins, M.A., B.Litt., *N.T. Greek*; J. E. Daniel, B.A. Ox., *Christ. Doct., Phil. of Religion*.

BRECON, The Memorial Coll. Principal—T. Lewis, M.A., B.D., *Hebrew and O.T. Exegesis*. Other Profs.: D. M. Edwards, M.A., D.D., *Christian Doctrine and Philosophy of Religion*; Jos. Jones, M.A., B.D., *N.T. Greek*, etc.; John Evans, B.A., *Ch. Hist.*

CARDIFF, The S. Wales Baptist Coll. Principal—T. Phillips, B.A., Hon. D.D. Profs. : T. W. Chance, M.A., B.D., *Ch. Hist.* ; J. Griffiths, B.A., B.D., *N.T. Greek and Exegesis*.

CARMARTHEN, The Presb. Coll. Principal—J. Park Davies, M.A., B.D., *Hebrew and Old T. Exegesis*. Other Lectrs. : M. B. Owen, B.A., B.D., *Ch. Hist.* ; J. O. Stephens, B.A., B.D., *Christian Doctrine and Phil. of Religion* ; Emrys Jones, B.A., B.D., B.Litt., *New T. Greek*.

## GENERAL INFORMATION

The Univ. was founded by Charter, 1893. As the result of an inquiry held by a Royal Commission in 1916–1918, a Supplemental Charter was granted to the Univ. in 1920, which introduced many important changes. For outline of changes, see *Year Book*, 1929. The teaching for initial degrees is undertaken by the constituent and associated Colleges, and matriculation in the Univ. is open only to students of those Colleges : in the case of an associated Theological College, only to students who are graduates of an approved University. The Univ. prescribes conditions under which it awards initial degrees to students of the Colleges and conducts the final exams. An Academic Advisory Committee deals with the conditions on which School Leaving certificates are accepted by the Univ. for matriculation, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

DEGREES. B.A., M.A., D.Litt. ; B.Sc., M.Sc., D.Sc. ; B.Tech. ; B.Mus., M.Mus., D.Mus. ; LL.B., LL.M., LL.D. ; M.B., B.Ch., M.D., M.Ch. ; B.D., D.D. ; Ph.D.

For a first degree 3 yrs. of study are required ; in Technology 1 yr. in an approved technological institution. The degree in Med. is only open to a graduate in Arts or Science of some British or approved colonial or foreign Univ. ; the period of qualification is 6 yrs., of which the last 3 may be spent in an approved School of Med. in the U.K. or in one of the Univs. of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs.' course) is post-graduate ; study is pursued in one of the Associated Theol. Colls. (v. *supra*) or at the School of Theology of the University College of N. Wales, Bangor. Study for an Honours degree in Arts, Science, or Law ordinarily covers 4 years. The M.A., M.Sc., and LL.M. may be awarded to graduates of other Univs. approved for this purpose who pursue a scheme of research for at least 2 yrs. in one of the constituent Colls. As regards Ph.D., see p. 18.

*Diplomas* in Educn. (post-grad. Diploma) ; Public Health (D.P.H.) ; Tuberculous Diseases (T.D.D.).

FEES : Matricn., £2 ; examns. qualifying for Bachelor degree, from £6 : 15s. ; Master, £8 ; Ph.D., £12 : higher Doctorates, £20.

SCHOLARSHIPS, ETC., FOR GRADUATES. The Univ. has funds amounting to over £4000 p.a. for the encouragement of research. In addition to 6 Fellowships (annual value £200 each) tenable for two years, it awards 12 studentships on the nomination of the Colls. to students who after graduation engage in work preparatory to research for 2 yrs. Grants to assist research into Welsh language, institutions, etc., are made, preferably to members of the Univ., from T. Ellis Memorial Fund (capital £1563). Grants, prizes, or exhibitions to encourage advanced study are made, for research in Law from the Sir Samuel Evans Memorial Fund (capital £1060), for research in tuberculosis

from the Cecil Prosser Research Scholarship Fund (capital £2000), and for research in problems connected with midwifery from the Ewen Maclean Scholarship Fund (capital £3000).

PUBLICATIONS: *Calendar* (Oct.), 4s.; *Diary*, 2s. Courses in Div. and in Mus., and Matricn. and Degree Regns., free. Matricn. Examn. Papers, 6d. B.D. Questions, 6d. Degree Papers, Arts 6s., Science 5s. Bulletin of Board of Celtic Studies, 5s. Publns. of the Council of Music. The best account of the early history of the Univ. is in *The University of Wales*, by W. Cadwaladr Davies and W. Lewis Jones (F. E. Robinson & Co.). The introduction to the Report of the Royal Commission on Univ. Education in Wales, 1918, rs., contains a valuable summary of the history of the University up to 1918.

## THE YEAR 1928-29

GRANTS AND BENEFACTIONS. A non-recurrent grant of £500 was made by H.M. Treasury for the publication of Welsh books for the use of Univ. students. A grant of £1000 for the dept. of Pathology in the Welsh Nat. School of Med. from Lord Beaverbrook through the Prime Minister.

NEW DEVELOPMENTS. A Univ. Board for Training Colls. has been constituted. Draft charter for the incorporation of the Welsh Nat. Sch. of Med. as a School of the Univ. has been submitted to the Privy Council for approval. A chair of Agric. Econ. has been established at the Univ. Coll. of Wales, Aberystwyth. The scheme for the interchange of lectures by teachers of the constituent Colls. instituted last year has been further developed.

RETIREMENTS. Prin. A. H. Trow, Univ. Coll. of S. Wales and Monmouthshire, succeeded by Prof. J. F. Rees, Prof. of Commerce, Birm.; Mr. H. Higgs, Ind. Lectr. in Econ., Univ. Coll. of N. Wales, succeeded by Mr. J. M. Rees, Aberystwyth.

RESIGNATION. Prof. J. H. Dible, Prof. of Pathology and Bact., Welsh Nat. Sch. of Medicine, on appt. to Liverpool Univ.

DEATH. Prof. Sir John Morris Jones, Prof. of Welsh, Univ. Coll. of N. Wales.

HONORARY DEGREES. LL.D.—Mrs. E. Davies, Sir David R. Llewellyn, Bt., The Rt. Hon. Lord Sankey (Lord High Chancellor of Gt. Britain). M.A.—Miss M. E. Pearson, Rev. J. T. Job, Rev. J. Dyfnallt Owen.

STUDENTS. Full-time: total, 2664; graduates, 99; preparing for first degree, 2002. Other full-time students, 563; part-time, 147.

DEGREES. B.A., 309; B.Sc., 161; B.Mus., 3; LL.B., 3; M.B., B.Ch., 8; B.D., 3; M.A., 35; M.Sc., 25; Ph.D., 7; M.D., 1.

# UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—  
Lieut.-Col. DAVID DAVIES, M.A., LL.D., M.P.

VICE-PRESIDENTS—The Rt. Hon. the EARL OF LISBURN; D. C.  
ROBERTS, Esq., J.P.

PRINCIPAL—H. STUART JONES, M.A., D.Litt., F.B.A.

VICE-PRINCIPAL—Prof. EDWARD EDWARDS, M.A.

FINANCIAL SECRETARY—E. B. HICKS.

ACADEMIC SECRETARY—G. J. WALKER.

SENIOR LIBRARIAN—J. D. WILLIAMS, B.A.

JUNIOR LIBRARIAN—E. CEINWEN FELSTEAD.

## PROFESSORS, LECTURERS, ETC.

<i>Agriculture</i>		Beddows, A. R., B.Sc.	Asst.
Griffith, J. J., B.Sc.	Prof.	Milton, W. E. J., N.D.A.	
Phillips, R., M.Sc.	Lectr.	<i>Agric. Chemistry</i>	
County Organizers, 7.		Fagan, T. W., M.A. Camb.	
Instructress in Dairying.			Indpt. Lectr.
Advisory Officers :		Davies, R. O., M.Sc.	Lectr.
Ashby, A. W., M.A. (Hon.) Ox.,		<i>Agric. Economics</i>	
Agr. Economist and Prof.			[Prof.]
Howell, J. P.	Asst. Advisor.	Ashby, A. W., Hon. M.A. Ox.	
Jenkins, J. R. W., M.Sc., En-		<i>Arabic, v. Hebrew</i>	
tomologist.		<i>Botany</i>	
Davies, D. W., B.Sc., Mycologist.		Robinson, Wilfrid, D.Sc. Manc.	
Thomas, S. B., M.Sc.			Prof.
Dairy Bacteriologist.		Newton, Mrs. L., Ph.D.	
<i>Agric. Botany</i>			Lectr. & Demr.
Stapledon, R. G., M.B.E., M.A.		Carter, P. W., M.Sc.	Asst. Lectr.
Camb.	Prof.	Gregory, Beryl D., B.Sc.	
Sampson, Kathleen, M.Sc. Lond.			Pt.-time Asst.
	Lectr.	<i>Chemistry</i>	
.....	Asst. Lectr.		[Prof.]
Plant Breeding Station :		James, T. C., M.A. Camb., D.Sc.	
Stapledon, R. G.	Director.	Bury, C. R., B.A., B.Sc. Ox.	
Investigators :			Lectr.
Jenkin, T. J., M.Sc.		Hudleston, L. J., B.Sc. Lond.	
Williams, R. D., M.Sc.			Lectr.
Jones, E. T., B.Sc.		Asst. Lectrs. & Demrs. :	
Jones, Martin G., M.Sc.		Rees, Miss A. G.	Pt.-time Asst.
Davies, Wm., M.Sc.		Williams, D. Matthew, Ph.D.	

*Classics*

Mountford, J. F., M.A. Ox.,

D.Litt. Birm. Prof. (Latin).

Jenkins, E. D. T., M.A. Ox.

Indept. Lectr. (Greek).

Bensly, E., M.A. Camb.

Spl. Lectr. (Med. and  
Renaissance Latin).

Baillie-Reynolds, P. K., M.A. Ox.

Lectr. (Ancient Hist.).

Asst. Lectr. :

Dowler, J. H., B.A.

*Economics and Pol. Science*, v.  
also Politics

Lewis, E. A., D.Sc. Lond., M.A.,

D.Litt. (Lectr. in Palæog.)

Prof.

George, Percy, B.A., B.Sc. Lectr.

Braithwaite, Constance, B.Sc.

Lond. Asst. Lectr.

*Education*

Chapple, C. R., M.A. Lond. Prof.

Roberts, Dorothy E., M.A. Lectr.

Pinsent, A., M.A. Lond., B.Sc.

Lectr.

Asst. Lectrs. :

Hughes, John, M.A.

Jones, Gwenan, M.A., Ph.D. Minn.

Green, G. H., M.A., B.Sc., Ph.D.

Lond., B.Litt. Ox.

Rowlands, M. Gertrude

Jones, Dan R., M.A., A.R.C.A.,

A.M.C. Art Master.

3 Instrs. in Physical Training and  
in Needlework.*English Language and Lit.*

Atkins, J. W. H., M.A. Camb. and

Lond. Rendel Prof.

Winstanley, Lilian, M.A. Manc.

Lectr.

Garmonsway, G. N., M.A. Camb.

Earnshaw, J., M.A. Asst. Lectrs.

*French Lang. and Lit. and  
Romance Philol.*

Barbier, J. L. A., L. ès L. Paris

Prof.

Thomas, A. B., D. de l'U. Lyon,

M.A. (Lectr. in Phonetics)

Lectr.

Phillips, Eva M., M.A.

Asst. Lectr.

Classe, André

Pt.-time Asst.

*Geography and Anthropology*, v.  
also Ocean.

.....

Prof.

Whitehouse, W. E., M.Sc. Lectr.

Bowen, E. G., M.A. Asst. Lectr.

Thomas, T., B.A. Pt.-time Asst.

*Geology*

[Prof.]

Pugh, W. J., O.B.E., D.Sc., B.A.

Challinor, J., M.A. Camb. Lectr.

Platt, J. I., M.Sc. Manc.

Asst. Lectr.

*German*

Evans, David, M.A. Indpt. Lectr.

Rees, Hermia, M.A. Asst. Lectr.

Drube, Herbert, Ph.D.

Pt.-time Asst.

*Hebrew and Arabic*

.....

Prof.

*History*, v. also Classics

Edwards, Ed., M.A. Camb. and

Lond. Prof.

Herbert, Sydney, M.A. (temporary)

Lectr.

*History, Colonial*

[Prof.]

Roberts, T. Stanley, M.A. Camb.

*Law, English*

Levi, T. A., M.A., B.C.L. Ox.,

LL.B. Lond., Barr.-at-Law

Prof.

Bailey, S. J., M.A., LL.B. Camb.

Spl. Lectr.

Asst. Lectrs. :

Wing, R. A., B.A., LL.B.

Davies, D. J. Ll., LL.B.

*Logic and Philosophy*

Jones, W. Jenkyn, M.A. Camb.,

B.A. Lond. Prof.

Davies, Dan, Ph.D. Glas., M.A.

Asst. Lectr.

*Mathematics, Applied*

Schott, G. A., B.A. Camb., D.Sc.

Lond., F.R.S. Prof.

Sutton, W. G. L., M.A. Ox.

Asst. Lectr.

Lewis, Thos., M.Sc.	Asst. Lectr.	Herbert, S., M.A.	Lectr.
<i>Mathematics, Pure</i>		<i>Welsh</i>	[Prof.
Morton, V. C., M.A. Ox.		Parry-Williams, T. H., M.A. Wales,	
	Indpt. Lectr.	B.Litt. Ox., Ph.D. Freib.	
Williams, D. R., M.A.	Asst. Lectr.	Jones, D. J., M.A.	Asst. Lectr.
<i>Music</i>		Lewis, Timothy, M.A. Manc., B.A.	
de Lloyd, David, Mus.D. Dub.,		(Celtic Philol. and Palæog.)	
B.A., Mus.B.	Prof.		Reader.
Clements, Charles, B.Mus.,		<i>Welsh Literature</i>	
F.R.C.O.	Asst. Lectr.	Jones, T. Gwynn, M.A.	Prof.
10 Assts.		<i>Zoology</i> , v. also Ocean.	
<i>Oceanography</i>		Laurie, R. D., M.A. Ox.	Prof.
Jenkins, J. Travis, D.Sc. Lond.,		Watkin, E. E., Ph.D.	Asst. Lectr.
Ph.D. Kiel, D.Sc. Hon. Lectr.		Lewis, E. Aneurin, M.Sc.	
<i>Palæography</i> , v. Econ.		Part-time Asst. Lectr.	
<i>Philosophy</i> , v. Logic		and Field Officer ( <i>Hel-</i>	
<i>Physics</i>		<i>minthology</i> ), Ministry	
Owen, Gwilym, M.A. Camb., M.Sc.		of Agr., Research Inst.	
Manc., D.Sc. Liv.	Prof.	of Parasitology, at-	
Asst. Lectrs. & Demrs.:		tached.	
Davies, R. M., M.Sc.		Jenkins, J. R. W., M.Sc.	
Jones, I. C., M.Sc.		Spl. Lectr. in Entomology.	
Jones, G. M., B.Sc.			
<i>Politics, Internat.</i>		University Extension	
Webster, C. K., M.A. Camb.,		Morgan, Herbert, M.A. Ox., B.A.	
Litt.D.	Wilson Prof.	Director of Extra-mural Studies.	
		16 Tutors.	

## GENERAL INFORMATION

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a constituent College of the Univ. of Wales. Its main building and Students' Hostels are on the sea front, facing Cardigan Bay.

**LIBRARIES.** College, 50,000 vols., including the collection of Sir John Rhys. Access to the National Library of Wales, founded in 1907, 420,000 vols., rich in Welsh and other Celtic books and MSS. **MUSEUMS:** Archæol., Bot., Chem., Ethnog., Geog., Geol., Zool., Gallery of Crafts. The Chemistry **LABORATORIES**, erected in 1907, are the most complete in Wales. Agric. Expl. and Plant-breeding Stations and Training Farm.

**FACULTIES.** Arts, Science, Law, Music. *Departments:* Agriculture, Teaching (Elem. and Secondary), Art and Handicraft, Extra-mural, Phonetics. A special feature is the ample provision for instruction and research in Agriculture.

Courses in Arts, Science, Law, Music, for Degrees of the Univ. of Wales.

*College Diploma* courses: Assoc. in Agric., 3 yrs.; Dairying, 2 yrs.; Music, 2 yrs.; Geography, 1 yr.; Animal and Human Biology, 1 yr.; Art, 1 yr.; Handicraft, 1 yr.; Social Hygiene, 1 yr.

Courses in Science meet the requirements of the first year of Medical study and the exams. of the Pharmaceutical Society.

Post-graduate courses (1 yr.) for Teachers (Elem. and Secondary), and in Agric.

RESEARCH work is systematically carried on in Agric. Botany and Agric. Chem. (whole-time Research Botanist, Chemist, Entomologist, Mycologist, and Dairy Bacteriologist), Chem., Geol., Geog., Physics, Zool., English, Welsh, Philos., Maths., Economics, History.

FEES for tuition in Arts, £15 per session; Science, £20; Registration, £1; Research students, 6 to 10 gs.

SCHOLARSHIPS FOR GRADUATES. 5 for Research, value £25 to £150, open to students of the College. See also under Univ. TRAVELLING SCHOLARSHIPS for visiting Continental institutions, average, £10 to £30; total, £500. RESEARCH STUDENTSHIP, £200 in Dept. of International Politics. Sir John Williams Research Studentship for Welsh Studies.

RESIDENCE. Board and lodging at Women Hostels: 50 to 62 gs. per session. Accommodation in Hostels for 300 women.

MEDICAL ATTENTION is provided for by a capitation fee of 10s., payable by all men students each session.

UNIVERSITY EXTENSION. Local lectures and short courses in Agric. subjects; Travelling Dairy School; Tutorial Classes in Econ., Lit., Hist., Welsh, Psychology, etc.; Summer School annually in Aug.

AFFILIATION. The Coll. is recognized by Ox. and Camb., and by Edin. and N.U.I., by the R.C.P. and S. Eng. and the R.C.S.I., the F.P. & S. Glas., the R.C.P.I. and the R.C.S.I., the Inst. Chem., and the Surveyors' Instn.

PUBLICATIONS. *Reports* (Jan.), 1s. 6d.; *Aberystwyth Studies*; Students' Magazine, *The Dragon*; Inaugural Lectures.

## THE YEAR 1928-29

BENEFACTIONS. The late Sir John Williams, Bt., Welsh Studies, £42: 7s.; Sir Laurence Philipps, Bt., Plant Breeding Station, £1000; Imperial Chemical Industries, Plant Breeding Station, £300; E. and J. Davies Bryan, Music Scholarship, £50; other gifts, £150.

PUBLIC LECTURES were delivered by Rt. Hon. Stanley Baldwin, M.P.; Prof. J. W. McBain; J. Lloyd William; Prof. J. W. Garner; Prof. C. K. Webster, and others.

About 50 awards amounting to upwards of £500 were made out of the TRAVELLING SCHOLARSHIP FUND to students and Members of Staff to enable them to visit Continental countries during the Easter and Summer Vacations.

RESIGNATIONS. T. Ellis Lewis, LL.B.; J. Morgan Rees, M.A.; G. E. Parfitt, B.A.; Miss D. M. Evans; Miss S. Harris; Miss J. Gough; B. Hauert.

STUDENTS. Full-time, 686; graduates, 20; preparing for first degree, 557; other full-time, 129. Part-time and occasional, 25. Pre-matriculation, 43. Extra-mural, 631.

DEGREES OBTAINED. B.A., 110; B.Sc., 49; LL.B., 5; B.Mus., 2; M.A., 1; M.Sc., 2; Ph.D., 1.

# UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

PRESIDENT—H. N. GLADSTONE.

CHAIRMAN OF THE COUNCIL—H. R. DAVIES, M.A., J.P.

PRINCIPAL—D. EMRYS EVANS, M.A., B.Litt.

SECRETARY AND REGISTRAR—W. P. WHELDON, D.S.O., M.A., LL.B.

BURSAR—RICHARD WILLIAMS.

WARDEN OF THE WOMEN STUDENTS—MURIEL ORLIDGE DAVIS.

## PROFESSORS, LECTURERS, ETC.

- |   |                                       |
|---|---------------------------------------|
| <i>Agriculture</i>                      | <i>Agric. Entomology</i> [Adviser.    |
| White, R. G., M.Sc. Leeds Prof.         | Davies, W. Maldwyn, Ph.D. Lond.       |
| Roberts, E. Jones, M.A., M.Sc.          |                                       |
| Lectr.                                  | <i>Applied Electricity and Hydro-</i> |
| Roberts, J. A. F., B.A. Camb.,          | <i>Electric Engineering</i>           |
| B.Sc.                                   | Williams, W. E., B.Sc. Lectr.         |
| Hon. Lectr. ( <i>Animal-breeding</i> ). | Marriott, E. N., M.Eng. Shef.         |
| Montgomerie, R. F., B.Sc.,              | Asst. Lectr.                          |
| Ph.D., M.R.C.V.S.                       | <i>Botany</i>                         |
| Vet. Advisory Officer.                  | Thoday, D., M.A. Camb. Prof.          |
| Ashby, A. W., M.A.                      | Davey, A. Jane, M.Sc. Lond.           |
| Spl. Lectr. in Ag. Econ.                | Lectr.                                |
| Hickson, Miss P.                        | Woodhead, N., M.Sc. Vict.             |
| Dairy Bacteriologist.                   | Asst. Lectr.                          |
| Currie, J. F.                           | <i>Chemistry</i>                      |
| Supervisor of Seed Po-                  | Orton, K. J. P., M.A. Camb.,          |
| tato Scheme.                            | Ph.D., F.R.S., F.I.C. Prof.           |
| Lectrs. in Bldg. Constn., Book-         | Watson, H. B., Ph.D., A.I.C. Lectr.   |
| keeping, Vet. Hygiene.                  | Soper, F. G., D.Sc., A.I.C.           |
| County Staffs: 5 Organizers ;           | Lectr. in Physical C.                 |
| Instructors in Cheesemaking,            | Asst. Lectr. & Demr. :                |
| Dairying, Horticulture and              | Bradfield, A. E., Ph.D.               |
| Poultry-keeping.                        | <i>Classics</i> , v. also Theol.      |
| <i>Agric. Botany</i> [Indpt. Lectr.     | Hudson-Williams, T., M.A., D.Lit.     |
| Roberts, R. Alun, Ph.D.                 | Lond. (Greek) Prof.                   |
| Whitehead, T., M.Sc., Ph.D.,            | Thomson, H. J., M.A., D.Litt. St.     |
| A.R.C.S.                                | And. (Latin) Prof.                    |
| Adviser in Plant Pathology.             | Lees, Miss M. E., M.A. Vict.          |
| <i>Agric. Chemistry</i> [Prof.          | (Latin) Lectr.                        |
| Robinson, G. W., M.A. Camb.             | Fisher, W. H., B.A. Camb.             |
| McLean, W., B.A., B.Sc.,                | Asst. Lectr.                          |
| A.R.C.S.I., A.I.C. Lectr.               | <i>Economics</i>                      |
| Williams, Rice, M.Sc. Asst. Lectr.      | Rees, J. Morgan, M.A. Lectr.          |
| 2 Res. Assts.                           |                                       |

Sloan, P. A., B.A. Camb.

Asst. Lectr.

### *Education*

Archer, R. L., M.A. Ox. Prof.

Paterson, Alice, M.A. Edin., Ph.D.

Jena Lectr.

Thomas, Miss M. Lectr.

Hamilton, E. R., M.A., B.Sc.

Lectr.

Williams, Ivor, B.Sc. Asst. Lectr.

Instructors in Drill, Handwork,  
and Rural Sc.

### *English Lang. and Lit.*

Wright, H. G., M.A. Vict. Prof.

King, R. W., M.A. Lond. Lectr.

Davies, C., M.A. Wales Asst. Lectr.

### *Forestry*

Thomson, T., M.Sc. Lectr.

### *French and Rom. Philol.* [Prof.]

Fynes-Clinton, O. H., M.A. Ox.

Cariou, Mlle. H., L. ès L. Lektor.

### *German and Teut. Philol.*

Purdie, Edna, M.A. Liv., D.Lit.

Lectr.

Sewing, H. Lektor.

### *History*, v. also Theol. [Prof.]

Lloyd, J. E., M.A., D.Litt. Ox.

Dodd, A. H., M.A. Ox. Lectr.

Richards, T., M.A., D.Litt. Wales

(Mod. Welsh H.) Reader.

Thomas, J. Alun, M.A. Wales,

Ph.D. Lond. Asst. Lectr.

### *Logic and Philosophy*, v. also Theol.

Gibson, J., M.A. Camb. Prof.

Lewis, Miss G. A., M.A. Lectr.

Stout, A. K., M.A. Ox. Asst. Lectr.

### *Mathematics*

Berwick, W. E. H., M.A., Sc.D.

Camb. Prof.

Phillips, E. G., M.A. Camb., M.Sc.

Manc. Lectr.

Shepherd, W. M., M.Sc. Lond.

Jr. Lectr.

### *Music*

Davies, E. T., F.R.C.O. Director.

Hamilton, E. R., M.A., B.Sc.

Spl. Lectr.

5 Executants and Teachers.

### *Philosophy*, v. Logic and Theol.

### *Physics*

Owen, E. A., M.A. Camb., D.Sc.

Lond., F.Inst.P. Prof.

Mainstone, P. A., M.Sc. Lectr.

Asst. Lectr. & Demr.:

Jones, H. Irvon, B.Sc.

### *Semitic Languages*

Robertson, E., M.A., D.D., D.Litt.

St. And. Prof.

Evans, Principal J. T., M.A., B.D.

Spl. Lectr.

### *Theology*, v. also Semitic Langs.

Spl. Lectrs.:

Jones, Principal J. M., M.A.

(Church Hist.).

Jones, G. Basil, M.A. (Philos.

Theism).

Daniel, J. E., M.A. (Philos. of

Religion).

Jenkins, J. (Gwili), M.A., B.Litt.

### *Welsh*

Williams, Ifor, M.A. Prof.

Parry, R. W., M.A. Lectr.

Parry, T., M.A. Asst. Lectr.

### *Zoology*

..... Prof.

Jackson, L. H., B.Sc. Lond.

Asst. Lectr.

### University Extension

Whole-time Lectrs.: Roberts,

R. Silyn, M.A.; Jones, E. J.,

M.A. Half-time: Parry, R.

W., M.A.; Thomas, J. A.,

M.A., Ph.D. Many other

members of the Staff give

single courses or combine in

giving a series.

## GENERAL INFORMATION

This College, constituted by Royal Charter in 1885, was made a constituent College of the University in 1893.

**LIBRARIES.** General, 80,000 vols. (Theology a strong feature). Welsh, 15,000, including the largest and best-equipped collection of Welsh periodicals in existence. **MUSEUMS** include special collections of fish, shell-fish, and fishing gear, Welsh antiquities, and Roman finds from Segontium (Roman fort at Carnarvon). **FARM**, 675 acres, chiefly sheep pasturage. Dairy.

Special facilities are offered for research in Welsh Lang. and Lit., Political, Social, Econ., and Religious Hist. of Wales, and allied subjects.

**COURSES.** B.A. degree courses include among others a "special scheme of study based on the idea of citizenship." There are courses in Theology for B.D. degree, and full courses for the B.Sc. in Agric. and Rural Economy, Forestry, Applied Electricity, and Hydro-Electrics, as well as in Pure Sc. College *Diploma* courses in Agric. and in Estate Management (3 yrs.), and in Forestry and Elec. Engineering (2 years). The Agric. course is recognized by the Surveyors' Instn. as qualifying for Students' Proficiency examn. Courses for College Certificates (2) in Music. Other courses: First year of Med. study; 1 yr. post-graduate course for Teachers (Elem. and Secondary); for Kindergarten Certif.—Elem. 1 yr., Higher 2 yrs. and 1 term.

**FEES.** Registration, 1 g. per session. Tuition, per session: Arts, £15; Science, £20; Medicine, 1st year (including lab.), £22; Post-graduate courses, non-lab., 6 gs.; with lab., 10 gs.; Agric., etc., diploma course, winter session, £15: 15s. (2 terms); Farm Practical Instruction, £5 (or 2 gs. a term). College societies (compulsory), £1: 8s.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Several College awards ranging in value from £22 to £100, open to students of the College. Loan fund (£150) for helping poor students to complete courses; also University Studentships of £100 and Fellowships of £250. See under Univ.

**RESIDENCE.** Hostels for 35 men (£47 p.a.) and 180 women (£49-£61). Total cost of living in lodgings and tuition in Bangor, from £70 to £80 per session.

**UNIVERSITY EXTENSION, ETC.** Local lectures in Literature, Econ., and Agric.; small lending libraries; Tutorial and Preparatory Classes in six counties. The Advisers in Agriculture conduct experiments and give expert advice to farmers and others.

**PUBLICATIONS.** *Calendar* (Sept.), 2s. 6d.; *Students' Handbook*, 1s.; *College Magazine*, one issue per term, 1s.; Prospectus free.

## THE YEAR 1928-29

**BENEFACTIONS AND GIFTS.** Miss Alice Rae of Birkenhead, £500 further endowment for the dept. of Econ. Under the will of Dr. Owen Pritchard of 41 Gloucester Sq., London, about £14,000, and the income of part of this fund (£4000) for scholarships for science students. Under the will of the late Mr. Robert Roberts of Bootle, about £6000 for scholarships to assist Welsh boys to study at the Coll.

**MEMORIAL BUILDINGS.** Part of the remaining debt on the Memorial Buildings (Science labs.) has been subscribed by three friends of the Coll., provided the balance is otherwise collected. £3431 remains to be found.

**UNIVERSITY EXTENSION.** Tutorial Classes, 20, with 363 students, chiefly in Econ., Welsh lit., and indust. hist.; Extension courses, 4, with 66 students; preparatory classes, 17, with 337 students (Econ. and Welsh). Many single lectures were given by members of the staff. The Ballard Mathews lectures were delivered by Mr. Hugh Walpole. The College and its hostels were used

for summer schools and conferences of the W.E.A. and Trade Union Council, and the vacation school in Theology.

RETIREMENTS, ETC. Sir John Morris-Jones, distinguished Welsh scholar; Mr. Henry Higgs, C.B., hd. of dept. of Economics.

STUDENTS. Full-time: total, 554, including 96 graduates. Part-time: total, 38, including 3 graduates.

DEGREES. B.A., 59; M.A., 9; B.Sc., 29; M.Sc., 3; Ph.D., 1.

## UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

PRESIDENT—Maj.-Gen. THE LORD TREOWEN, C.B., C.M.G.

TREASURER—DANIEL RADCLIFFE, J.P.

PRINCIPAL—J. F. REES, M.A. Ox., M.Com. Birm.

REGISTRAR—D. J. A. BROWN.

LIBRARIAN—S. O. MOFFET, M.A. Manc.

### PROFESSORS, LECTURERS, ETC.

- |   |  |
|---|--|
| <i>Agriculture (Advisory and Research Staff)</i>                    | <i>Architecture</i>  |
| Rees, J., B.A., M.Sc. (A. Botany).                                  | Purchon, W. S., M.A. Lond.,<br>A.R.I.B.A. Lectr.                     |
| Thompson, H. W., M.Sc. Leeds<br>(A. Zool.).                         | <i>Botany</i>  |
| Bisset, N., M.R.C.V.S. (Scot.)<br>(Vet. Sc.).                       | McLean, R. C., M.A. Camb., D.Sc.<br>Lond., F.L.S. Prof.              |
| <i>Anatomy</i> [Prof.]  | Dickinson, S., D.I.C.  |
| McLaren West, C., M.C., M.B.,<br>B.A.O., B.Ch., Sc.D. Dub.          | Anderson, Violet L., B.Sc., Ph.D.<br>Lond.<br>Asst. Lectrs. & Demrs. |
| Strong, Cecil N., L.D.S., M.R.C.S.,<br>L.R.C.P. Lectr. & Demr.      | <i>Chemistry</i> , v. also Physiol.                                  |
| Fitzsimons, R. A., B.Sc. Lond.,<br>M.R.C.S., L.R.C.P. Demr.         | Jones, W. J., D.Sc. Manc., M.Sc.,<br>F.Inst.P. Prof.                 |
| Burlend, T. H., M.A. Camb., B.Sc.<br>Lond.                          | Perman, E. P., D.Sc. Lond.<br>Asst. Prof.                            |
| Lectr. (Histol. & Embryol.).  | Bassett, H. Ll., M.A. Camb.,<br>B.Sc. Lond. (Organic C.)<br>Lectr.   |
| McSweeney, Evelyn H., B.Sc.<br>N.U.I.                               | Cullinane, N. M., M.Sc., Ph.D.<br>N.U.I. Lectr.                      |
| Demr. (Histol. & Embryol.).   | Bowden, S. T., B.Sc.<br>Asst. Lectr. and Demr.                       |
| <i>Archæology</i> [Lectr.]  |  |
| Nash-Williams, V.E., M.A. (Keeper<br>of Dept. of A. in Nat. Museum) |  |

*Classics*, v. also German  
 Tillyard, H. J. W., M.A. Camb.,  
 D.Litt. Edin. (Greek) Prof.  
 Freeman, Kathleen, M.A. Lectr.  
 Grundy, W. W., M.A. Camb., B.A.  
 Dub. Prof. (Latin).  
 Richardson, L. J. D., M.A. Dub.  
 Asst. Lectr.

*Economics and Pol. Science*  
 Roberts, W. J., M.A. Ox.  
 Fulton Prof.  
 Parris, S. C., B.Sc. (Econ.) Lond.  
 Asst. Lectr.

*Education*  
 Phillips, W., M.A. Prof.  
 Wheeler, Olive A., D.Sc. Lond.,  
 M.Sc. Prof.  
 Jones, E. J., M.A. Lectr.  
 Barke, Ethel M., M.A. Dub. „  
 Hartley, Nora F., M.A. Manc. „  
 Amos, A. D., B.Sc. Lond. „  
 Thomas, R., M.A. Lond. and  
 Wales Lectr.

Asst. Lectrs.:  
 Morris, Eliz. M. D., M.A. Lond.  
 Sibley, G. V.  
 Greenlees, Evelyn M.

*Engineering*  
 Thomas, W. Norman, M.A., D.Phil.  
 Ox., M.Sc. Birm. Prof.  
 Thomas, S., M.Sc. Lectr.  
 Foster, P. F., B.Sc. Lond., M.Sc.  
 Lectr.  
 Aston, K., B.Sc. (Tech.) Manc.  
 Asst. Lectr. & Demr.  
 Barlow, J. E., B.Sc. Manc.  
 Asst. Lectr. & Demr.  
 A technical Asst.

*English Lang. and Lit.*  
 Brett, C., M.A. Ox. Prof.  
 McLean, Miss C. M., M.A. Edin.  
 Lectr.  
 Llewellyn, E. C., M.A. Ox., B.A.  
 Wales Lectr.

*French*  
 Watkin, M., M.A., L. ès L. Ren.,  
 Ph.D. Zur., O.I.P. Prof.  
 Jones, P. Mansell, M.A., B.Litt.  
 Ox. Lectr.

Schneider, G., L. ès L. Lector.  
 Michandel, Marguerite, L. ès L.  
 Lectrice.

*Geology*  
 Cox, A. H., D.Sc. Birm., Ph.D.  
 Stras. Prof.  
 Heard, A., M.Sc. Manc., Ph.D.  
 Lectr.  
 Dingwall, Miss J. M. M., M.A.,  
 B.Sc. Edin. Lectr.

*German*  
 Lloyd, M. D. Idwal, M.A. Lectr.  
*Histology*, v. Anat.

*History*  
 Bruce, H., M.A. Ox. Prof.  
 Rees, Wm., D.Sc. Lond., M.A.  
 Lectr.  
 Whale, Miss G., B.M., B.A. Lectr.

*Hygiene and Public Health*, v.  
*infra*

*Law*  
 Davies, E., B.C.L., M.A. Ox. Lectr.  
 Evans, C., B.C.L., M.A. Ox.  
 Asst. Lectr.

*Mathematics*  
 Livens, G. H., M.A. Camb. Prof.  
 Taylor, D. G., M.A. Camb. and  
 Glas., D.Sc. Glas.  
 Lectr. (Pure M.).  
 Hayden, H. A., M.Sc. Lond., B.Sc.  
 Lectr.  
 Pope, A. H., M.Sc. Lond.  
 Asst. Lectr.

*Medicine*, v. *infra*  
*Metallurgy*  
 Read, A. A., D.Met. Sheff., F.I.C.,  
 F.C.S. Prof.  
 Jones, W. R. D., M.Sc. Lectr.  
 Jones, B., B.Sc. Asst. Lectr.

*Mining* [Lectr.  
 Price, S. W., A.R.S.M., M.I.M.E.  
 Chubb, C. S., B.Sc. Asst. Lectr.

*Music*  
 Evans, D., Mus.D. Ox. Prof.  
 Lloyd, J. Morgan, Mus.Doc. Dub.  
 Lectr.

9 Teachers.

*Philosophy*

[Prof.  
Scott, J. W., M.A., D.Phil. Glas.  
Thorburn, J. M., M.A., B.Sc. Edin.,  
B.A. Lond. Lectr.

*Physics*

Robinson, H. R., D.Sc. Manc.,  
Ph.D. Camb., F.R.S. Prof.

## Lectrs. :

Dunbar, R. T., M.A., Ph.D. Edin.  
Young, C. L., B.Sc.  
Harker, G. F. H., M.A. Camb.  
Crackston, J. E., M.Sc. Camb.,  
M.Sc. Liv.

*Physiology*

Brown, T. Graham, M.D., D.Sc.  
Edin., F.R.S. Prof.  
Pryde, J., B.Sc. St. And., M.Sc.  
(Lectr. in Physiol. Chem.)  
Asst. Lectr. & Demr.  
Hemingway, A., M.Sc., M.B., Ch.B.  
Leeds Lectr. (Expl. P.).  
Shaxby, J. H., D.Sc. Lond.,  
F.Inst.P.

Lectr. (Special Sense P.).

..... Asst. Lectr. & Demr.

*Semitic Languages*

Robinson, T. H., M.A. Camb.,  
D.D. Lond., Hon. D.D. Aberd.  
Prof.

*Welsh*

Gruffydd, W. J., M.A. Ox. Prof.  
Williams, G. J., M.A. Lectr.

*Zoology & Comparative Anatomy*

Tattersall, W. M., D.Sc. Manc. Prof.

## Lectrs. :

Lloyd, J. H., M.Sc. Birm., F.Z.S.  
Sheppard, Edith M., M.Sc., F.Z.S.

**Medicine, Welsh National School**  
of (for subjects of first 2 yrs.  
—Anat., etc., v. *supra*)

*Hygiene and Public Health*

Collis, E. L., M.A., M.D.  
Talbot Prof. of *Preventive Med.*  
Williams, E. Colston, M.D. Lond.,  
D.P.H. Camb., F.R.C.S. Edin.  
Lectr.

Picken, R. M. F., M.B., Ch.B., B.Sc.  
Glas., D.P.H. Camb. Lectr.  
Morgan, W. Parry, M.A., M.D.  
Camb., B.Sc. Lond. Lectr.  
Sugden, J. H., M.Sc. Manc. Lectr.  
Buist, J. J., M.B.  
Instr. (Vaccination).

*Materia Medica and Pharmacology*, v. also Med. .

Stevens, W. Mitchell, M.D. Lond.,  
F.R.C.P. Lond. Lectr.  
Beatty, J., M.A., M.D. Dub.,  
D.P.H. Asst. Lectr.

*Medicine*

Kennedy, A. Mills, M.D., Ch.B.  
Glas. Prof., Dir. of Med. Unit.  
Davies, Ivor J., M.D., B.S. Lond.,  
F.R.C.P. Senr. Asst.  
Duncan, G. L., B.A., B.M., B.Ch.  
Ox. M.R.C.P. Lond.  
Junr. Asst.  
Buist, J. J., M.B. Lond.  
Lectr. (*Forensic M.*).  
McCowan, P. K., M.D. Edin.,  
M.R.C.P. Lond., D.P.M. Eng.  
Lectr. (Mental Dis.).  
McGarrity, J., M.D., D.P.H., Supt.  
of Instn. in Fevers.

*Obstetrics and Gynaecology*

Maclean, Sir Ewen J., M.D., C.M.  
Edin., Hon. D.Sc. F.R.C.P.,  
F.A.C.S., F.R.S. Edin. Prof.  
Strachan, G. I., M.D., Ch.B. Glas.,  
F.R.C.S., M.R.C.P. 1st Asst.  
Collins, B. K. Tenison, M.A., M.D.,  
B.Chir. Camb., F.R.C.S.E.  
2nd Asst.  
..... Asst.

*Pathology and Bacteriology*

Duguid, J. B., M.D. Aberd.  
Actg. Prof.  
Morgan, W. Parry, M.A., M.D.  
Camb., B.Sc. Lond.  
Lectr. (Bact.).  
Gough, Jethro, M.B., B.Ch.  
Asst. Lectr. (*Path.*).

Duggan, Miss M. M., M.B., B.Ch.  
Demr.

### *Surgery*

Sheen, A. W., C.B.E., M.S. Lond.,  
F.R.C.S.

Prof. & Dir. of Surg. Unit.

Rogers, L. C., M.Sc., F.A.C.S.,  
F.R.C.S. Edin. Senr. Asst.

Cooke, Robert V., M.B., Ch.B.  
Brist., F.R.C.S. Junr. Asst.

Smith, S. Alwyn, D.S.O., O.B.E.,  
Ch.M. Edin., F.R.C.S. Edin.  
Lectr. (*Orthopædics*).

### *Tuberculosis*

Cummins, S. Lyle, C.B., C.M.G.,  
M.D., LL.D.

David Davies Prof. of  
Tuberculosis.

Powell, D. A., M.D., M.R.C.S.,  
L.R.C.P. Hon. Lectr.

### Recognized Teachers :

Brownlee, A., M.D., F.R.C.S.,  
L.D.S., D.P.H.

Gilchrist, James C., M.D., Ch.B.  
Hiley, Melville R., M.R.C.S.,  
L.R.C.P.

Tytler, W. H., M.B., B.A.  
Johnson, A. C., M.A., M.B., B.Ch.  
Davies, W., M.R.C.S., L.R.C.P.

### Recognized Clinical Teachers and Part-time Lecturers

#### *Medicine (In-Patients)*

Stevens, W. Mitchell, M.D.,  
F.R.C.P.

Lewes, Cyril, M.D.

#### *Medicine (Out-Patients)*

Howell, Alfred, M.D., M.R.C.P.  
Davies, Ivor J., M.D., F.R.C.P.  
Evans, Herbert T., M.D., M.R.C.P.

#### *Surgery (In-Patients)*

Griffiths, Cornelius A., F.R.C.S.  
Martin, William, M.A., M.B., C.M.,  
B.Sc.  
Grant, J. W. Geary, F.R.C.S.

#### *Surgery (Out-Patients)*

Wade, J. O. W., O.B.E., M.S.,  
F.R.C.S.

Harries, D. J., M.D., B.S., D.Sc.,  
F.R.C.S.

Hammond, T. E., F.R.C.S.

#### *Ophthalmology*

Cresswell, F. P. S., M.B., B.S.,  
B.Sc., F.R.C.S. Lectr.

Davies, D. Leighton, M.D., M.S.,  
F.R.C.S.

Thomas, J. W. Tudor, M.D., B.Ch.,  
B.Sc., M.B., B.S. Lond.,  
F.R.C.S.

#### *Oto-Rhino-Laryngology*

Owen, R. D., B.Sc., F.R.C.S.  
Edin. Lectr.

Prichard, A. A., M.D., B.Ch.

#### *Diseases of Children*

Howell, Alfred, M.D., M.R.C.P.  
Lectr.

#### *Physio-Therapy*

Evans, T. Garfield, M.D., B.S.  
D.M.R.E. Lectr.

#### *Dermatology*

Beatty, J., M.A., M.D., M.R.C.P.,  
D.P.H. Lectr.

#### *Radiology*

Rhys, Owen L., M.D., B.Ch. Lectr.

#### *Venereal Diseases*

Rhys, Owen L., M.D., B.Ch. Lectr.  
Evans, Miss Erie, M.B. Lectr.

#### *Anæsthetics*

Greaves, H. Gordon, M.B., B.Ch.  
Lectr.

#### *Pathology*

Schölberg, H. A., M.B., D.P.H.

#### *Clinical Surgery at City Lodge Hospital*

Harries, D. J., M.D., B.S., D.Sc.,  
F.R.C.S.

### University Extension

Tutors, 34 (including a few  
members of the College Staff).  
Joint Secy.—D. J. A. Brown,  
Regr.

## ASSOCIATED INSTITUTIONS

TECHNICAL COLLEGE, CARDIFF. Principal, C. Coles, B.Sc.

SOUTH WALES AND MONMOUTHSHIRE SCHOOL OF MINES, TREFOREST. Principal, George Knox, F.G.S.

Both Institutions join with the University College in granting Diplomas, v. *infra*: College Diplomas.

## GENERAL INFORMATION

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one of the constituent Colleges of the Univ. For early history, see *Year Book*, 1929. New buildings for the Medical Unit at the Cardiff Royal Infirmary were completed and occupied in 1928.

**LIBRARY:** Drapers' Company's, 65,000 vols. **MUSEUMS:** Anat., Mat. Med., Path., Zool. The National Museum of Wales (Art, Archæol., Zool., Geol., Bot.) is located in an adjoining building. **LABORATORIES:** Physical Research, with liquid-air plant, etc.; Engineering (including 100-ton testing machine); and usual Science and Medical teaching and Research labs. The Cardiff Royal Infirmary (between 400 and 500 beds), in which the final studies of the Welsh National School of Medicine take place, is within five minutes' walk of the College. Clinical facilities are available also in other local hospitals.

**FACULTIES.** Arts, Science, Medicine (Welsh National School of Medicine). **Departments:** Music, Applied Science and Technology, Teaching (Elem. and Secondary); Advisory and Research Dept. in Agric.

**COLLEGE DIPLOMAS.** Engin., Metalliferous Mining, Metallurgy; Lang., Lit., and Hist. of Wales; Econ. and allied subjects; Music; Social Study and Training. In the Applied Science subjects the qualifying scheme of study covers 3 years; in the other subjects, 2 yrs. A Diploma in Biology is awarded after a one-year's course. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs.' residence being required. After a 4 yrs.' course students who desire to specialize in certain subjects can take a post-diploma course. A Joint Diploma in Mech. Engin., Marine Engin., or Industr. Chem. is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs.' course.

**MEDICAL DIPLOMAS.** Post-graduation courses are provided leading to the D.P.H. (1 year) and T.D.D. (Tuberculous Diseases) (3 to 6 months). Short courses are provided in Sanitary Science (leading to a Testamur given jointly by the College and the Cardiff Technical College) (1 year), and in Midwifery for Midwives.

**SCHOLARSHIPS** (Prospectus obtainable from the Registrar). One of £60 is offered for research by a woman in any faculty, one of £50 (which may be increased by a bonus) for Science research. See also under Univ.

**FEES.** Annual Composition for tuition—Arts, £15; Science, £20; Music, £15; Applied Science, £20 (Non-associated Counties, £30); Medical, £25 to £35; Hospital practice, Perpetual Hospital ticket, £12:12s.; Research, 6 to 10 gs.; Registration, 1 g. p.a.

**RESIDENCE.** 2 Hostels for women. Sessional Fees, £65 to £75. Board and lodging in the City can be obtained at about £2 per week.

**PHYSICAL WELFARE OF STUDENTS.** An Asst. Lectr. in Physical Training

has been appointed, who also acts as College Adviser in Physical Training and Games.

**PUBLICATIONS.** *Calendar* (Feb.), 2s. ; *Students' Handbook* ; *Cap and Gown. Information regarding Courses and Careers open to Students of Science.*

## THE YEAR 1928-29

**BENEFACTIONS.** £12,398 for Appeal Fund, which has now reached £146,345, £465 for Scholarship and Prizes, £100 for General Purposes. Mr. Daniel Radcliffe, a substantial sum for producing Welsh text-books.

**NEW BUILDINGS.** Physics and Chemistry Buildings completed and occupied. South façade of College Buildings for temporary accommodation of Advisory and Research Dept. in Agriculture completed and occupied.

**RETIREMENTS.** Dr. A. H. Trow, Principal of the College ; Dr. E. Goodall, Lectr. in Mental Diseases.

**RESIGNATIONS.** Prof. J. H. Dible, appointed Prof. of Path. in the Univ. of Liverpool ; Dr. J. M. Webster, to a Public appointment in Sheffield ; Mr. Thomas Parry, appointed Lectr. in Welsh, Univ. Coll. of N. Wales, Bangor ; Dr. D. T. Davies, to a Hospital appointment in London ; Dr. William Everett ; Mr. C. Handford, appointed Lectr. in Metall. in the Coll. of Techn., Manchester ; Dr. J. Mills, appointed Pathologist at the Royal Berkshire Hosp., Reading ; Mr. J. M. Peterson, appointed Lectr. in Exper. Physiol. at the Univ. of Aberdeen.

**STUDENTS.** Full-time : total, 999, including 180 graduates. Part-time : total, 175, including 34 graduates.

**DEGREES OBTAINED.** B.A., 108 ; B.Sc., 67 ; M.A., 19 ; M.Sc., 9 ; Ph.D., 4 ; M.B., B.Ch., 8 ; M.D., 1 ; Mus.Bac., 1.

## UNIVERSITY COLLEGE OF SWANSEA

**PRESIDENT**—F. W. GILBERTSON, LL.D.

**PRINCIPAL**—C. A. EDWARDS, D.Sc.

**REGISTRAR**—EDWIN DREW.

**LIBRARIAN**—OLIVE M. BUSBY, M.A. Lond.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>		Ayling, E. E., M.Sc. Lond.	
Mockeridge, Florence A., D.Sc.			Asst. Lectr.
Lond.	Ind. Lectr.	Hartshorne, N. H., Ph.D. Lond.,	
Rees, T. Kenneth, M.Sc.		M.Sc. Birm.	Asst. Lectr.
	Asst. Lectr.	<i>Classics</i>	
Little, Percy A., B.Sc. „ „		Johnson, S. K., M.A. Camb.	Prof.
<i>Chemistry</i>		Stevenson, J., M.A. Princeton,	
Coates, J. E., O.B.E., D.Sc. Birm.,		B.A. Camb.	
M.Sc.	Prof.	Hill, H., M.A. Sheff.	Asst. Lectr.
Hinkel, L. E., D.Sc. Lond.		Ellis, T. I., M.A. Ox., B.A.	
	Lectr. (Organic C.).		Asst. Lectr.

*Education*

Cavenagh, F. A., M.A. Lond. Prof.  
 Jones, Idwal, M.A. Asst. Lectr.  
 Stephens, D. J., M.Sc. Asst. Lectr.

*Engineering*

Bacon, F., M.A. Camb. Prof.  
 Isaacs, R. G., M.Sc. Bris., B.Sc.  
 Lond. Lectr. (Elec. E.).  
 Fordham, A. A., B.Sc. Lond.  
 Lectr. (Civ. E.).  
 Caswell, J. S., M.Sc. Asst. Lectr.

*English*

Thomas, W. D., M.A. Ox., B.A.  
 Prof.  
 Taig, T., M.A. Glas. Asst. Lectr.  
 Westcott, Miss I. M., B.A. Bris.,  
 B.Litt. Ox. Asst. Lectr.

*Geology*

Trueman, A. E., D.Sc. Lond.  
 Ind. Lectr.  
 Stuart, A., M.Sc. Durh.  
 Asst. Lectr.

*History*

[Prof.  
 Hughes, E. E., M.A. Ox., B.A.  
 Medicott, W. N., M.A. Lond.  
 Asst. Lectr.  
 Roberts, Glyn, M.A. Asst. Lectr.

*Mathematics*

Richardson, A. R., D.S.O., B.Sc.  
 Lond., A.R.C.S. Prof.  
 Wilson, R., M.A. Ox. Lectr.  
 Hargreaves, J., B.A. Camb.  
 Asst. Lectr.

*Metallurgy*

..... Prof.  
 Taverner, L., A.R.S.M. Asst. Prof.  
 Pfeil, L. B., D.Sc. Lond., A.R.S.M.  
 Lectr.

Jones, J. C., M.Sc. Asst. Lectr.  
 Griffiths, Roosevelt, B.Sc.  
 Asst. Lectr.

*Modern Languages*

Williams, Mary, D. de l'U. Paris,  
 M.A., O.A. Prof.

*Lectr. :*

Diverres, P., M.A. Liv., D. ès L.  
 Rennes, Off. de l'Instr. Pub.  
 Matthews, Evelyn, M.A.  
 Asst. Lectr.  
 Pool, Miss E. M., M.A. Liv.  
 Asst. Lectr.

*Philosophy*

Heath, A. E., M.A. Camb. Prof.  
 Aaron, R. I., D.Phil. Ox., M.A.  
 Asst. Lectr.  
 Ewing, A. C., D.Phil. Ox., M.A.  
 Ox. Asst. Lectr.

*Physics*

Evans, E. J., D.Sc. Lond., B.Sc.,  
 A.R.C.S. Prof.  
 Jones, W. Morris, M.A. Camb.,  
 M.Sc. Lectr.  
 Asst. Lectrs. :  
 Wright, L., M.Sc. Sheff.  
 Davidson, P. M., B.A. Camb.

*Welsh*

Lewis, Henry, M.A. Prof.  
 Lewis, Saunders, M.A. Liv.  
 Asst. Lectr.  
 Williams, Stephen J., M.A.  
 Asst. Lectr.

*University Extension*

Thomas, P. S., M.A. Staff Tutor.

## GENERAL INFORMATION

Incorporated by Royal Charter, dated Jan. 21, 1920, the College was made a constituent College of the Univ. of Wales by a Supplemental Charter to the Univ. on Aug. 13, 1920. The administrative offices, assembly hall, common rooms, and refectory, in addition to some of the Science departments, are accommodated in a mansion in Singleton Park, presented, together with 19 acres of land surrounding it and 15 acres for playing-fields, by the Corporation of Swansea, which also gave £50,000 towards the cost of Science buildings. Extensive laboratories have been erected in the Park, on a site adjacent to

the main College building, for the departments of Metallurgy, Engineering, Chemistry, and Physics, and a building to accommodate the Arts Departments and Library.

Situated in the heart of a district possessing a long and interesting metallurgical history and presenting an unrivalled variety of present-day metallurgical practice, the College offers exceptional advantages for preparation for professional careers in the metallurgical industry. The manufacturers of the district, who contribute largely to the support of the College, give the staff and students ample opportunities of keeping in close practical touch with manufacturing processes in the works. To ensure the closest possible co-operation with the local industries, Advisory Committees in Metallurgy and Engineering have been set up. All the College laboratories (Physics, Chem., Geol., Biol., Metall., Engin.) are well-equipped and include fine experimental plant for instruction and research in combustion engineering.

**FACULTIES.** Science and Arts. Departments: Metallurgy and Engineering, and Training of Teachers (men and women) for Elem. and Sec. Schools.

**COURSES FOR DEGREES, ETC.** Courses (3 years) for the degrees of the Univ. in Pure and Applied Science and Arts; also for the College diplomas in Metallurgy and in Engineering, and for the College Certificate in Geography; and complete Prelim. Science Course for medical students and classes in Law for articled clerks. Engineering students are expected, and, where necessary, helped, to obtain practical experience in works during the greater part of the summer vacation. Afternoon visits to works are arranged frequently throughout the session. Occasional lectures are given by experts on the business, administration and managerial side of industrial undertakings.

**FEES.** For tuition in Pure or Applied Science, £20; Arts, £15; Registration, £1: 1s. p.a.; for Research, from 6 to 10 gs.

**RESIDENCE.** Hostel for women students. A list of Registered Lodgings is kept by the Registrar.

## THE YEAR 1928-29

**BENEFACTIONS.** Donations from £14 to £500 for research, etc. *Annual Subscriptions*, £5060.

**NEW POSTS.** Assistant Lectureships in Classics and Education.

**RESIGNATIONS.** Dr. P. Dienes (Maths.), on appointment to a Univ. Readership in Maths. at Birkbeck Coll., London; Mr. E. S. Keeping (Physics), on appointment to an Asst. Professorship in Physics at the Univ. of Alberta.

**UNIVERSITY EXTENSION WORK.** 20 Univ. Tutorial Classes and 5 Prep. Classes and one University Extension Course, with 610 students. Many single lectures were given by members of the College staff in Swansea and elsewhere. The Coal Owners' Univ. Trust Fund provided for 5 short courses of lectures and a Tutorial Class.

**STUDENTS.** Full-time: total, 425, including 74 graduates. Part-time: total, 21, including 2 graduates.

**DEGREES OBTAINED.** M.A., 3; M.Sc., 6; B.Sc., 28; B.A., 45.

# UNIVERSITY COLLEGE OF THE SOUTH- WEST OF ENGLAND, EXETER

PRESIDENT—H.R.H. THE PRINCE OF WALES and DUKE OF CORNWALL,  
K.G.

DEPUTY PRESIDENT—SIR HENRY Y. B. LOPES, Bart., D.L., M.A.

PRINCIPAL—JOHN MURRAY, M.A. Ox.

VICE-PRINCIPAL—Prof. W. H. LEWIS, M.A. Ox.

REGISTRAR AND SECRETARY—A. K. WOODBRIDGE.

## PROFESSORS, LECTURERS, ETC.

<i>Astronomy</i>		King, P.	Asst.
Lockyer, W. J. S., M.A. Camb., Ph.D. Gött., F.R.A.S.		King, Mrs. C. M. de R.	
	Hon. Lectr.	<i>Education and Psychology</i>	
<i>Botany and Horticulture</i>		Watkins, S. H., M.A. Wales, Ph.D. Leip.	Prof.
Sager, J. L., M.A. Camb., F.L.S.	Head of Dept.	Walker, Miss A. J., M.A. Birm., B.A. Lond.	Lectr.
Cumming, A. M., A.R.C.S.I.		Mathias, Miss S. Y., M.A. Liv. „	
	Asst. Lectr.	Asst. Lectrs. :	
<i>Chemistry</i>		Cattell, R. B., B.Sc., Ph.D. Lond.	
Lewis, W. H., M.A. Ox., F.I.C.	[Prof.]	Kaye, M., M.A., Ph.D. Lond.	
Britton, H. T. S., D.Sc. Lond., D.I.C., F.I.C.		11 Assts. and Pt.-time Lectrs. and Instrs. in Teachers' Training Dept.	
	Lectr. in Physical C.	<i>English</i>	
King, Miss R., M.Sc. Lond.	Lectr.	Horrox, W. L., M.A. Camb.	Prof.
Wray, E. C.		Gollancz, Prof. Sir I., Litt.D., F.B.A.	
	Lectr. in Chem. of Dyestuffs.	Hon. Leofric Lectr. in Old E.	
Robinson, R. A., M.Sc. Birm.		Wright, Miss B. D., M.A. Edin., Ph.D. Lond.	Lectr.
	Demr.	Martin Clarke, Mrs. D. E., M.A. Camb.	Asst. Lectr.
<i>Classics</i>		Dexter, Miss K. M., B.A. Lond.	Student Lectr.
Fletcher, F., M.A. Ox.	Prof.	Riley, W. Arnold, F.T.C.L., L.R.A.M.	
Gordon, M. L., M.A., B.Litt. Ox.	Lectr.	Asst. Lectr. (Elocution).	
Heap, M., B.A. Camb.	Asst. Lectr.	<i>Extra-mural Studies</i>	
<i>Commerce and Economics</i>		Patterson, E. J., M.A. Camb.	Head.
Sykes, J., M.Com. Manc., M.A. Leeds	Head of Dept.	<i>Geography</i>	
Baster, A. S. J., B.Com., B.Sc. Econ. Lond.	Asst. Lectr.	Smith, R.	Prof.
<i>Cultural Evolution</i>		Clayden, A. W., M.A. Camb., F.G.S., Visiting Director.	
Dawson, C., M.A. Ox.	Lectr.		
<i>Drama</i>			
Staff of English Dept.			
Horrox, Mrs. Lewis, L.R.A.M.			
	Asst.		

Williams, D. T., M.A. Wales  
Sebag-Montefiore, Ida Reader.

*Geology, Physical*

Howard, F. T., M.A. Ox. Lectr.

*History*

Harte, W. J., M.A. Ox. Prof.

Wilkinson, B., M.A., Ph.D. Manc.  
Lectr.

Handcock, W. D., M.A. Brist.  
Asst. Lectr.

*Keltic* [Hon. St. Petrock Lectr.

Jenner, H., M.A. Wales, F.S.A.

*Law*

Morgan, J. G., M.A. Ox., LL.B.  
Lond.

Hd. of Dept. & Dir. of  
Legal Studies.

Roberts, C. H., M.A. Ox., Barr.-  
at-Law Asst. Lectr.

Turner, R. W., M.A., LL.M. Camb.  
Tutor.

Lectr. in Book-keeping, etc. :

Newman, C. J.

*Mathematics*

Brown, T. A., M.A., B.Sc. Edin.,  
B.A. Camb., F.R.S.E. Prof.

Mallison, H. V., M.A. Camb.,  
B.Sc. Lond. Lectr.

Unthank, H. W., M.A. Camb.,  
M.A., B.Sc. Lond., F.R.A.S.

Asst. Lectr.

Constable, K. M., M.A. Ox.  
Part-time Asst.

*Modern Languages*

Schopp, J. W., M.A. Lond. Prof.

Wilson, Mabel, M.A. Dub., L. ès L.  
Paris Asst. Lectr.

Trudgian, Helen M., L. ès L. Paris  
Asst. Lectr.

Tillier, L., B. ès L. Lille. Asst.

*Music*

Armstrong, T., M.A., D.Mus. Ox.  
Head of Dept.

*Philosophy*

[Hd. of Dept.  
Levine, I., M.A., D.Litt. Glas.

*Phonetics*

Woodbridge, Vera, L.R.A.M.  
(Eloc.) Part-time Asst.

*Physics*

Newman, F. H., D.Sc. Lond.,  
A.R.C.S., F.Inst.P. Prof.

Searle, V. H. L., M.Sc. Lond.  
Lectr.

Hoare, F. E., B.Sc. Lond., A.R.C.S.  
Asst. Lectr.

*Politics, International* [Lectr.

Patterson, E. J., M.A. Camb.

*Zoology*

[Lectr.  
Lapage, G., M.Sc., M.B., Ch.B.

**University Extension**

Chairman of Committee for Ex-  
ternal Studies and Joint Hon.

Sec. for Tutorial Classes :  
E. J. Patterson, M.A.

## GENERAL INFORMATION

Founded 1865. Organized as University College, 1901. Incorporated 1922.

Classes in Arts, Science, Econ., Com., Law, Music, Agr., Hort., Pharm., for London Univ. degrees and Diplomas. Courses are provided for Elementary and Secondary teachers, for entrance into Civil Service, and for the first year of Medical study. The Training Dept. is recognized as a Training College for Elem. and Sec. teachers. The Royal Albert Memorial Library (60,000 vols.) and Museum are closely associated with the College, and the important collections of books and scientific material are freely available for advanced students of the College. A Dept. of Horticulture was added in Oct. 1929.

**AFFILIATION.** The College is affiliated to the Univs. of Ox. and Camb. It is recognized by the Camb. Special Board for Med. and the Conjoint Med. Board as a place of instruction in Chem., Physics, and Biol., and by the Institute of Chemistry for instruction in preparation for its Examsns.

FACULTY BOARDS in Arts, Sci., and Econ. supervise students.

FEES. Sessional: Interm. course, Arts or Econ., £25; Sci., £30; final course in Arts or Econ., £25; Sci., £30; fees at reduced rate payable by students from Devon, Cornwall, Exeter, or Plymouth; Law, 8 to 13 gs.; Music (term), 6 gs.; for foreign students (term), 6 gs.; Research, 8 to 14 gs.; Teachers' Training Dept. (Elem. and Sec.), £10; Registration, £2 (except: Postgrad., £1; Law, £1: 1s.; Music, 2s. 6d. a term).

RESIDENTIAL FACILITIES. For women—(a) Hope Hall (50); (b) Bradninch Hall (60), sessional fee, £55-£60; (c) Sandford Hall (30). For men—(a) Reed Hall (75), sessional fee, £66-£70; (b) Grendon House (45), £60. All students not living at home must reside in one of the Halls of Residence. Foreign students residing for 1 or 2 terms only, £25-£26: 5s.

SCHOLARSHIPS for graduates: one or two in Sci. annually from Andrew Simons Scholarship Fund; one annually to Mod. Lang. student for study abroad.

PUBLICATIONS. *Prospectus*, issued (free) in July; *Annual Report* (free) in Oct.; the *Ram*, College Magazine (terminally); the *College Field Club Proceedings*; Guild of Undergraduates' *Handbook*.

## THE YEAR 1928-29

BENEFACTIONS. Appeal Fund now amounts to c. £222,682 (Endowments, £110,879; Buildings, £111,803), including £25,000 from Mr. E. J. Mardon, J.P., of Topsham, Devon, for new Hall of Residence (Men); £5000 from Exrs. of late Mr. Alfred Hobson of Dawlish; £4000 from Mr. W. J. Rook, an old student, for Mod. Lang. Grad. Scholarship; £2000 from Mrs. Lazenby; £1300 from Miss K. M. Lazenby; and £500 from Col. Ransom Pickard, for the Physics Dept. of new Sci. Block; £1500 from Mr. E. J. Mardon, J.P., for a Squash Racquets Court; £250 under will of the late Mr. H. B. Varwell; £250 from Messrs. H. W. and H. T. Michelmores for tennis hard courts; and sums ranging from £50 to £250 for endowment of 10 rooms in new Hall of Residence.

DEVELOPMENTS. A special 2-yr. course for 100 additional Students in Training at request of the Board of Education. A Dept. of Hort. was opened, October 1929, for the B.Sc. in Hort. (Lond.). N.D.H., examinations of the Roy. Hort. Soc., etc. The Summer School for Foreign Students, August 1929, attracted 214 students. Work on new Science Block at Streatham Estate proceeding, and completion hoped for by Christmas, 1930. Temporary accommodation for residential and teaching purposes acquired. 17 acres of land adjacent to Streatham Estate purchased. Extensions to Reed Hall of Residence providing 8 study-bedrooms and a sitting-room. A Hostel for men of the Techn. Coll., Plymouth, provided by Lord Astor and opened on October 15, 1929. Exeter Hall, for local men students, recently constituted. Exeter City Council annual grant increased to £5000 from Apr. 1930.

NEW DEPARTMENTS AND POSTS. Part-time Asst. Lectr. in Law. Warden of Exeter Hall.

UNIVERSITY EXTENSION. Nine courses given, attended by 263 students and nine Tutorial Classes, attended by 167 students.

STUDENTS. Full-time, 334, including 32 graduates; preparing for first degree, 254; other full-time students, 80. Part-time and occasional, 139, including 50 from other countries.

DEGREES OBTAINED. M.A., 1; M.Sc., 2; B.A., 27; B.Sc., 20; B.Sc. (Econ.), 4; LL.B., 1.

# UNIVERSITY COLLEGE OF NOTTINGHAM

PRESIDENT—His Grace THE DUKE OF PORTLAND, K.G., G.C.V.O.

VICE-PRESIDENTS—Sir JESSE BOOT, Bart. ; Alderman E. HUNTSMAN  
(Chairman of Council) ; T. L. K. EDGE, M.A., D.L., J.P.

PRINCIPAL—HUGH STEWART, C.M.G., D.S.O., M.A. Camb.

REGISTRAR—J. E. SHIMELD, F.C.I.S.

## PROFESSORS, LECTURERS, ETC.

### *Biology*

Holden, H. S., D.Sc. Manc.,  
F.R.S.E., F.L.S. (Botany)  
Prof.

Lectrs. and Demrs. :

Bexon, Dorothy, M.Sc. Lond.  
(Bot.).

Ellis, Miss M., B.Sc. Wales (Bot.).

Lister, H., M.Sc. Liv. (Zool.).

Hutchinson, Miss H. J. (Physio-  
logy and Histology) Lectr.

### *Chemistry and Metallurgy*

Kipping, F. S., Ph.D. Mun., D.Sc.  
Lond., F.R.S. Prof.

Prideaux, E. B. R., M.A. N.Z.,  
D.Sc. Lond. Reader.

Lectrs. and Demrs. :

Firth, J. B., D.Sc. Manc.

Trotman, S. R., M.A. Camb.

Watson, F. S., M.Sc. Manc.

Laxton, F. C., B.Sc. Lond.

Driver, J. E., Ph.D. Lond.

Shaw, B. D., Ph.D. Lond.

### *San. Sci. and Public Health*

Smith, E. Bertram, M.B., B.S.,  
D.P.H. Hon. Director.

Storer, E. J., M.R.C.S., M.R.C.P.  
2 other Lecturers.

### *Classics and Philosophy*

Granger, F. S., D.Lit., M.A. Lond.  
Prof.

Barker, E. P., M.A. Ox., D.Litt.  
Durh. (Classics) Reader.

### *Economics and Commerce*

Kirkaldy, A. W., M.A., B.Litt.  
Ox., M.Com. Birm. Prof.

Radford, A., B.Sc. Econ. Lond.

Lectr. in E.

Howard, S. C. Lectr. in C.

Blythen, S., F.C.A., Prof. of Acctcy.

8 Lectrs. in Insurance, Account-  
ancy, and C. Law.

### *Education*

Wortley, H. A. S., M.A. Camb. Prof.  
Lectrs. :

Newton, W. H., B.Sc. Lond.

Moncrieff, Miss A., M.A. Edin.

Becket, Miss E. M., M.A. Lond.

Ward, Miss L. M.

Adam, Anne K.

Lewis, M. M., M.A. Lond.

Dallas, Miss A. E. M., M.A., B.Sc.  
Edin.

Stewart, A. H., B.A.

5 Lectrs. in Hygiene, Music,  
Needlework, and Art.

2 Lectrs. in Phys. Exercises.

### *Engineering and Technology*, v. also Textiles [Prof.

Bulleid, C. H., O.B.E., M.A. Camb.

Lectrs. and Demrs. :

Cotton, H., M.B.E., M.Sc. Lond.  
(Dir. Sub-dept. *Elect. E.*).

Dickson, J. M., B.Sc. Lond. (M. E.).

Wilde, J. H., B.Sc. (Eng.) Lond.  
(*Civ. Engin.*).

Golding, E. W., B.Sc. Manc.  
 Rolinson, J. G., Whit. Ex.  
 Hutchins, H. J., Typog.  
 Thompson, H. H., Typog.  
 Ruddick, W.  
 38 other Technical Teachers.

### *English*

Hewitt, R. M., M.A. Ox. Prof.  
 Griffiths, G. S., M.A., B.Litt. Ox.  
 Lectr.  
 Selby, Miss A., M.A. Lectr.  
 De Castro, Miss I., M.A. Ox.  
 Lectr.

### *Geology and Geography*

[Prof.  
 Swinnerton, H. H., D.Sc. Lond.  
 Beasley, C. G., M.A. Lond.  
 Lectr. in Geog.  
 Edwards, K. C., B.A. Lond.  
 Lectr. in Geog.  
 Clift, S. G., B.Sc. Lond.  
 Lectr. in Geol.  
 [Lectr.

### *Hebrew*

Sanders, H. F., B.A., D.D. Lond.

### *History*

Owen, L. V. D., M.A. Ox. Prof.  
 Oswald, F., D.Sc., F.S.A.  
 Hon. Reader.  
 Brameld, Miss N., M.A. Lond.  
 Lectr.

Wood, A. C., M.A., B.Litt. Ox. Lectr.

### *Law*

May, H. R. D., M.A., LL.B.  
 Director of Dept.  
 Cursham, C. (Real Property)  
 Lectr.

Granger, Prof. F. S., D.Lit., M.A.  
 (Roman Law) Lectr.  
 Brameld, Miss N. M., M.A. (Con-  
 stit. Hist.) Lectr.  
 Howard, S. C. (Book-keeping)  
 Lectr.

### *Mathematics*

Piaggio, H. T. H., M.A. Camb.,  
 D.Sc. Lond. Prof.  
 Green, H. G., M.A. Camb. Lectr.  
 Prior, L. E., M.Sc. Lectr.  
 Underwood, F., M.Sc. Lond. Lectr.  
 7 other Lectrs.

*Metallurgy*, v. Chem.

### *Military Science*

[Dir.  
 Pickbourne, Capt. H., B.A. Lond.

### *Mining*

McMillan, W. H., B.Sc. Glas.,  
 M.I.Min.E. Prof.  
 Watkins, W. G., M.I.Min.E.,  
 M.I.Mech.E. Lectr.  
 Whitaker, J. W., Ph.D., B.Sc.  
 Lond. Lectr.  
 Watson, J. M. R., B.Sc. Glas.  
 Lectr.

7 other Lectrs.

### *Modern Languages*

Weekley, E., M.A. Camb. Prof.  
 Lectrs.:

Peck, Mrs. L. (English Phonetics).  
 Bourdache, E., B. ès L. (French).  
 Guigou, Mlle. M., L. ès L. (French).  
 Schweizer, W. R., Ph.D. (German).  
 Moroni, Mme. (Italian).  
 Lavrin, Prof. J. (Russian and  
 Slavonic).

Chamberlain, G. L., M.A. Edin.  
 (Spanish and Portuguese).

### *Music*

[Director.  
 Johnson, B., B.A., Mus.B. Camb.  
 Kirkaldy, Mrs. Tutor.

Lectrs.:

Henniker, L., B.Mus. Ox., F.R.C.O.  
 2 other Lectrs.

### *Pharmacy*

[Director of Dept.  
 Bentley, A. O., Ph.C.

Trease, G. E., Ph.C. Lectr.  
 Driver, J. E., Ph.D. Lectr.  
 Stather, Mrs. C.  
 Turner, H. A., Ph.C. Lectr.

### *Physics*

Shaw, P. E., M.A. Camb., D.Sc.  
 Lond. Prof.  
 Brose, H. L., Ph.D. Reader.

Lectrs. and Demrs.:

Franks, A. H., B.Sc. Lond.  
 Browning, Helen M., M.Sc., Ph.D.  
 Lond., F.Inst.P.  
 Davy, N., M.Sc. Lond., A.R.C.S.  
 3 other Lectrs. and Demrs. in  
 Telegraphy, etc.

<i>Psychology</i>	[Lectr.	<i>Zoology</i> , v. Biol.
Spratt, W. J. H., M.A. Camb.		
<i>Technology</i> , v. Engin., Textiles.		University Extension
<i>Textiles</i>		Peers, Prof. R., M.A. Liv.
Davis, W., M.A. Edin.	Prof.	Hd. of Dept.
Lectrs.:		Wright, G. G. Neill, B.A., B.Ed.
Barr, J., A.T.I. (Yarn Testing).		Edin.
Trotman, S. R., M.A. Camb. (Dyeing and Bleaching).		Wells, F. A., B.Sc. (Econ.) Lond.
Boswell, W. E., A.T.I. (Hosiery Manufacture).		Chambers, J. D., Ph.D. Lond.
Buckley, G. H., A.T.I. (Hosiery Manufacture).		Collie, Miss E. R., M.A., B.Ed., Ph.D. Edin.
Richardson, L. G. (Dyeing and Bleaching).		Eagle, E. C., B.Sc. Econ.
10 Demrs.		Brettle, R. E., M.A., D.Phil.
		3 Organizers.

ASSOCIATED COLLEGE: MIDLAND AGRICULTURAL COLLEGE, Sutton Bonington. Subjects for the Final Examn. for the London B.Sc. in Agric. are taken at this College, those for the Intermediate only being taken at Univ. College, Nottingham.

## GENERAL INFORMATION

The College was opened in 1881. The Faculties of Arts, Economics and Commerce, and Pure Science occupy the University Park Buildings. The Faculty of Applied Science occupies the Shakespeare Street Building. The City Public Library is housed in the east wing of this building.

COURSES: For London External degrees in Arts, Econ., Com., Div., Pure Science, Law, Med., Agric., Engin., and Mining; Diploma of the College in Comm., Geog., Adult Education, Engin., Mining, Mine Surveying, Hosiery, Dyeing and Bleaching, Fuel Technology (each 3 yrs.); Social Study Diploma (1 yr.); Bd. of Educn. Elem. Teachers' Certif. and Cambridge Secondary Teachers' Diploma; L.D.S.; Assoc'ships of the Insts. of Chem. and Physics; Colliery Manager's Certif.; Nat. Diploma of Inst. of Mech. Engineers; Law Society's Examns.; Civil Service Appointments; D.P.H.; Pharmacy Diplomas; L.R.A.M. and L.R.C.M.; Post-grad. and Research courses in Arts and Pure Science. Special English course for Foreigners.

*Evening Classes*, including some held on Thursday aftn. and Sat. morning and aftn., for London B.Sc., B.Sc. Econ., B.Sc. Engin. and Interm. Arts; St. And. L.L.A.; Comm.; Dispensing and Pharmacy; Sanitary Science; Engin. and Technology; Mining; Textiles, including Textile Testing, Hosiery, Dyeing.

The session for Day Classes is Sept.-July; Evening, Sept.-April.

FEES. Tuition composition, per annum: Intern. or Degree courses in Arts, Div., or Econ.—24 gs.; in other Faculties, or Diploma courses in Commerce, Engin., Mining, Mine Surveying, or for A.I.C. or A.I.P.—30 gs.; Diploma course in Geography—24 gs.; Social Study Diploma (complete course)—£10; L.D.S.—18 gs.; Colliery Manager's Certif.—12 gs.; D.P.H. (complete course)—30 gs.; Pharmacy (complete course)—£30; Law—12 gs.; English course for Foreigners—£13.10s.; Registration fee, £1 p.a.; Union fee, £1 5s. p.a.

Evening Classes, £1 per session.

RESEARCH SCHOLARSHIPS in Arts and Science of from £30 to £50 are awarded annually. Special facilities for research in all subjects.

RESIDENCE. Mapperley Hall (men), primarily for students in the Training Department. The Hostel, University Park (women). Registered lodgings, 30s. to 40s. Students are, when possible, placed with private families.

UNIVERSITY EXTENSION. Extra-mural adult education is organized as a department of the Faculty of Arts. The Head of the Dept., a whole-time professor, is assisted by 9 staff tutors, 2 organizing lecturers, and many part-time tutors and lecturers.

PUBLICATIONS. *Calendar* (Oct.), 1s.; *Day and Evening Prospectuses*, 2d.; *The Gong*, 3 times a year; *Diary* (Oct.), 1s. 3d.

## THE YEAR 1928-29

Considerable additions have been made to the new buildings at University Park, including the completion of the Lower Hall, to be used by students for social purposes. The Heat Engines Lab. in the Engineering block has been further extended by Lord Trent at a cost of several thousand pounds. The F.B. Hall of Residence in University Park was opened on Nov. 24, 1928, with accommodation for 80 students. Lord Trent has since provided two hard and four grass tennis courts. Further gifts of books have been made to the Library by twenty-eight donors, including Lord Trent, who has presented a valuable set of Ruskin's works. The Endowment Fund, inaugurated in the summer of 1928, has now reached approximately £137,500. The Notts. C.C. have increased their annual grant to £2500, and the Derbyshire C.C. to £2000. The Colliery Owners in the district contributed £1366 towards the Mining Dept., the Hosiery Section of the Nottingham Chamber of Commerce, £400, and Messrs. Courtaulds, Ltd., one hundred gs. towards the Textiles Department. The Committee of the Nottingham Exhibition of Textile Machinery donated £463 to the Coll., the profit on the 1928 Exhibition, in addition to £250 to the Endowment Fund. A further grant of £1000 for the purchase of equipment has been received from the Miners' Welfare Committee, making £5000 in all. The Technology Dept. is being extended. Machinery worth approx. £3000 has been given by manufacturers.

EXTRA-MURAL WORK. Nottingham is the centre of Adult Education in the East Midlands. During the Session 63 three-year tutorial classes, 12 preparatory tutorial classes, and 39 one-year classes were held, an increase of 10 as compared with the previous Session. 2115 students attended extra-mural classes, an increase of 190 on the previous Session. 21 Univ. Extension courses and 64 short courses were arranged.

VISITS OF MEMBERS OF STAFF. Prof. Peers elected to an Albert Kahn Travelling Fellowship; Prof. Lavrin carried out research work in Slovakia and Carpathian Russia.

RETIREMENT. W. H. Heaton, M.A., Principal, as from Dec. 31, 1929.

RESIGNATIONS. Miss E. G. Thompson; H. N. Davy, Staff Tutor in Literature; L. A. Wickert, Lectr. in Maths.; A. L. Macfie, Staff Tutor in Econ. (Adult Ed. Dept.), appointed Lecturer in Econ., Glasgow Univ.

STUDENTS. Full-time, 499; graduates, 50. Part-time and occasional, 342; graduates, 9. Evening students, 2026; graduates, 26. Extra-mural students, 2115; vacation courses, 80.

DEGREES OBTAINED. M.A., 2; B.A., 27; B.Sc.Econ., 2; B.Sc., 33; B.Sc.Engin., 3; B.Sc. (Min.), 1; M.Sc., 3.

# UNIVERSITY COLLEGE, SOUTHAMPTON

VISITOR—H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN,  
K.G., K.P., K.T.

PRESIDENT—CLAUDE G. MONTEFIORE, M.A., D.D.

VICE-PRESIDENT—Rt. HON. LORD FORSTER OF LEPE, G.C.M.G.

TREASURER—W. F. PERKINS.

PRINCIPAL—KENNETH H. VICKERS, M.A.

REGISTRAR—GEORGE GRANT, B.A.

## PROFESSORS, LECTURERS, ETC.

### *Botany*

Mangham, S., M.A. Camb. Prof.

Loader, Miss F. M., B.Sc. Lond.

Lectr.

Sparshott, Miss E. N., B.Sc. Lond.

Demr.

### *Chemistry*

Boyd, D. R., D.Sc. Glas., Ph.D.

Heid.

Prof.

Smith, A. E. Clarence, M.A. Camb.

Lectr. in Physical C.

Hardy, D. V. N., B.Sc. Lond.

Asst. Lectr.

Colenutt, E. D., B.Sc. Lond.

Demr.

Beale, C. H., B.Sc. Lond.

Demr.

### *Classics*

Forsey, G. F., M.A. Lond. Prof.

Laidlaw, W. A., M.A. Dub.

Asst. Lectr.

Maunsell, Mrs. F. G., M.A. Lond.

Asst. Lectr.

### *Economics and Commerce*

Ford, P., B.Sc. (Econ.) Lond.

Lectr. in Charge.

Hodgson, R. A., B.Com. Lond.

Asst. Lectr.

England, W. F.

Part-time Lectr. in Rail-

way Operating.

### *Education and Philosophy*

Cock, A. A., B.A. Lond. Prof.

Dudley, G. G., B.A., LL.B. R.U.I.

(Lectr. in Logic) Sr. Lectr.

Hales, Miss R. B., M.A. Ox.

Lectr.

Steel, Miss M. J., M.A. Edin.

Lectr.

Harry, H. T., B.Sc.

Lectr.

Ricks, Miss E. M. Asst. Lectr.

Dove, A. G.

Part-time Asst. Lectr. in

Handicraft.

Payne, H.

Asst. Lectr. in Physical

Training (Men).

### *Engineering, Civ. and Mech.*

Eustice, J., B.Sc. Lond., A.R.S.M.

Prof.

Mann, E. E., M.Sc. (Eng.) Leeds

Lectr.

Glover-James, H., Dip. Eng. Edin.

Lectr.

Ford, G. P. Asst. Lectr.

Moyle, R. C., M.I.Mar.E. Demr.

### *Engin., Elec., v. Physics*

### *English*

[Prof.

Pinto, V. de S., M.A., D.Phil. Ox.

Aubrey, Miss E. R., M.A. Lond.

Lectr.

Leishman, J. B., M.A. Ox. Lectr.

Crawford, S. J., M.A. Belf., B.Litt.

Ox. Lectr.

- Geography*  
 Rishbeth, O. H. T., M.A. Ox. Prof.  
 Miller, Miss F. C., B.A. Leeds Lectr.  
 Tavener, L. E., M.A. Camb. Asst. Lectr.  
 Boswell, Miss K. C., B.A., B.Sc. Lond. Demr.
- Geology and Zoology*  
 Sherriffs, W. R., M.A., D.Sc. Aberd. Prof.  
 Anderson, F. W., B.Sc. Leeds Asst. Lectr.
- History*  
 Lyttel, E. S., M.A. Ox. Prof.  
 Horrocks, J. W., D.Lit. Lond. Lectr.  
 Rutherford, J., B.A. Durh., Ph.D. Mich. Asst. Lectr.
- Law* [Reader.  
 Cook, W. G. H., LL.D., M.Sc. Asst. Lectrs. (part-time):  
 Buchanan, R. D., B.A. Camb.  
 Groves, L. G., LL.B. Lond.  
 Cumpsty, W. T.
- Mathematics, Pure and Applied*  
 Watkin, E. L., M.A. Camb. Prof.  
 Casson, R., M.A. Camb. Lectr.
- Trout, Miss A. M., B.A. Lond. Lectr.  
 Maunsell, F. G., M.A., Ph.D. Camb. Lectr.
- Music*  
 Williams, D. C., F.R.C.O. Lectr. in Charge.
- Philosophy*, v. Educn.  
*Physics & Electrical Engineering*  
 Stansfield, H., D.Sc. Lond. Prof.  
 Spary, P. G., B.Sc. Lond., M. Eng. Sheff., M.I.E.E. Lectr. in Electrotechnics.  
 Tomlinson, H. J., B.Sc. Lond., A.I.E.E. Lectr.  
 Carpenter, L. G., B.A., B.Sc. Ox. Lectr.  
 Chester, C. E., B.Eng. Sheff. Lectr.
- Romance Languages and German*  
 Patchett, E. W., M.A. Camb. Prof.  
 Lawton, H. W., M.A. Wales, D. ès L. Paris Asst. Lectr.
- Spanish*  
 Hamilton, Miss G. H. (and French) Lectr.
- Zoology*, v. Geol.

## GENERAL INFORMATION

Founded 1850; opened as the Hartley Institution, 1862. Incorporated as the Hartley University College under a scheme of the Board of Education, 1902.

The Library, 44,300 vols., includes the Cope collection of Hampshire books, pamphlets, and broadsheets.

Classes in Arts, Science, Commerce, Engineering (Civ., Mech., and Elec.), Music, and Law prepare for the External degrees of the Univ. of London. It provides courses for Elem. and Secondary Teachers, for entrance into the Civil Service, the first year of Med. Study, Pharmacy, Surveying, etc. It is recognized as a Training College for Elem. and Secondary Teachers. Through its Evening Classes (attended by upwards of 400 students) it performs the function of a Technical Institute. A Dept. of Law, instituted in 1923, is recognized as a Law School under the Solrs.' Act. The *Associateship* (Assoc. U.C.S.) implies, unless honorary, attendance at day or evening classes during at least one full session. *Diplomas* are awarded in Commerce, Engineering, Engin. Research, Geography, Advanced Geog., Law, and Music. Special Diploma in English for foreign students.

**ADMISSION.** The minimum age for both Day and Evening students is 16. Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

**FEES.** The sessional fee is £25 for Courses in Arts, Commerce, and Music ; £32 for Courses in Science and Engineering ; and £30 for the Teachers' Diploma Course. Students whose parents are ratepayers within County Borough, Southampton—£18 : 15s., £22 : 10s., and £24 respectively.

**SCHOLARSHIPS FOR GRADUATES.** One of £60 for Research. One of instruction fees in Educn. Loan fund for senior students.

**RESIDENTIAL FACILITIES.** South Stoneham Hall of Residence for men ; Warden—Prof. A. A. Cock, B.A. Highfield Hall, a Hall of Residence for women ; Warden—Miss E. R. Aubrey, M.A. South Hill, Hall of Residence for women ; Warden—Mrs. Ashdown.

**PUBLICATIONS.** *Calendar* (Sept.), free ; Halls of Residence Prospectus, free ; *Students' Magazine*, 6d. ; *Wessex Magazine* (June), 2s. annually.

## THE YEAR 1928-29

**BENEFACTIONS.** Appeal Fund, £58,000.

**NEW BUILDINGS.** The first wing of the new Women's Hall of Residence at Highfield completed.

**NEW DEPARTMENT.** A Dept. of Extra-mural Studies was established, and 11 courses of lectures given. Sec., A. Tomlinson, M.Sc. Econ.

**RESIGNATIONS.** Miss A. M. Hoare, M.A., Lectr. in Education, appointed Headmistress, Thetford Grammar School ; K. M. Lindsay, B.A., Sec. for Extra-mural Studies, appointed Govt. Organizer of Emigration ; G. W. Dyson, B.A., Lectr. in Classics, appointed Lectr. in Classics at Westfield Coll.

**STUDENTS.** Full-time : total, 296, including 3 graduates. Part-time : total, 348, including 2 graduates.

**DEGREES.** B.A., 25 ; B.Sc., 11 ; B.Sc.Econ., 1 ; B.Sc.Eng., 3.

## ST. DAVID'S COLLEGE, LAMPETER

VISITOR—THE BISHOP OF ST. DAVIDS.

PRINCIPAL—REV. CANON MAURICE JONES, D.D.

The College was founded in 1827 for the purpose of affording to persons intended for the Ministry of the Church, especially in Wales, a sound and liberal education on the lines of that offered by the older Universities. Incorporated by Royal Charter, it is empowered to confer degrees in Arts and Theology. Residence for nine full terms and the passing of three exams. conducted by examiners appointed by Oxford and Cambridge are requisite for B.A., ten terms for B.D.

Profs.—*Theol. and Greek*, The Principal; *Science*, J. C. Evans, M.A.; *Latin*, G. W. Wade, D.D.; *Engl. and Phil.*, H. Walker, M.A., LL.D.; *Welsh*, Rev. R. H. Richards, M.A.; *Hebrew*, Rev. A. E. Morris, B.A.; 7 Lectrs.

Students, 185, including 16 graduates.

DEGREES. B.A., 28; B.D., 3.

# THE SCOTTISH UNIVERSITIES

ST. ANDREWS  
GLASGOW

ABERDEEN  
EDINBURGH

## REPRESENTATIVES IN PARLIAMENT

SIR GEORGE A. BERRY, M.B., LL.D.; JOHN BUCHAN, LL.D.;  
DUGALD M'COIG COWAN, M.A.

IN CONSTITUTION these 4 Universities have, under the operation of the Univs. (Scotland) Acts 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ. Court and General Council, were instituted; by the latter a Committee of H.M.'s Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ. Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ. Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ. Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St. And. the Provost of St. Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St. Andrews) Town Council. In St. Andrews the Principals of St. Mary's Coll. and Univ. Coll., Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ., is a Court of Appeal from the Senatus and has power, since the expiration of the powers of the Commrs. under the Act of 1889, to found new chairs with the approval of the Univs. Committee and make other ordinances with the approval of H.M. in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ., examiners and lecturers; to define the nature and limits of a professor's duties under his commission; and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns. providing for such recognition.

The *Senatus Academicus*, consisting of the Principal, the whole of the Profs., and certain Readers and Lecturers, is entrusted with the regulation and superintendence of the teaching and discipline of the Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the Senatus and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs., such Lecturers and Readers as have held office for a year, and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration.

The General Councils of the four Universities elect three *Members of Parliament*.

**FACULTIES.** In all the Univs.—Arts, Science, Divinity, Medicine. In all except St. Andrews—Law. In Edin. only—Music. In Glas. and Aberd.—Engineering (Edin. and St. And. have departments and offer degrees in Engineering, although not a separate Faculty).

**TERMS.** The academic year is divided into three terms—Oct. to Christmas, Jan. to latter part of March, April to end of June or early July.

**ADMISSION** (Appendix XX.). The Regulations for admission to a graduating course in a Univ. prescribe a Group Leaving Certificate of the Scottish Education Department showing passes in four subjects, one of these being Mathematics or Dynamics or Physical Science and another a language other than English. Two, at least, must be on the higher standard; and three on the higher standard will be required unless one of the passes is in Mathematics or Latin on the higher standard, or unless both Mathematics and Latin have been passed (either higher or lower standard). Candidates who have not obtained a Leaving Certificate may be admitted on passing a Preliminary Examn. in four subjects under similar restrictions and conditions.

*Exemption (pro tanto)* is granted in consideration of having passed approved equivalent examns. Candidates from abroad, whose native language is other than English, must pass a Special examn. in English (held in March, Sept., and Oct.; in set works and an oral examn.). Candidates from the British Empire overseas, whose native language is English and who have passed examns. which would admit them to Univs. or Tech. Colleges affiliated to Univs. in their own country, will be exempted. Indian students must have obtained a first-class in the Interm. examn. in Arts or Science of an Indian Univ., and must at some stage of their course have passed in Maths. or Science and English. Similarly the Baccalauréat ès Lettres or ès Sciences will exempt from the Prelim. examn.; Certificates of Maturity or Grades similar to the French Baccalauréat which would entitle the holder to enter upon a regular course of study in the Univs. of his own country will similarly exempt other students from the continent of Europe; and students of the U.S.A. holding certificates which would admit to a regular

graduating course in any of the Univs. or Colleges approved by the Asscn. of American Univs. (v. Appendix XXVI.) will be exempt.

*N.B.* A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy, Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

Argentine Certificates giving admission to the Univ. of Buenos Ayres, the B.A. degree of St. John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy; and, if including Arabic, English, and Maths., the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. examn.

The holder of a Degree obtained otherwise than *honoris causa tantum* in any British or foreign Univ. is exempt from all Prelim. examn.

Applications for exemption on the ground of having passed any of the above-mentioned examns., or on other grounds, should be addressed to the Secretary of the Entrance Board, 81 North Street, St. Andrews.

DEGREES and courses leading thereto (v. also p. 14). The *M.A.* (ordinary) course (there is no *B.A.*) extends over 3 yrs. and includes (for ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang. and Lit., Ment. Philos., Science, Hist. and Law. (There are further restrictions at St. Andrews and Edinburgh.) A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses. The first 2 yrs. may be taken in any of the Scottish Univs. The Senatus may accept attendance given and examns. passed at other Univs. specially recognized for the purpose, if qualifying courses for at least 2 yrs. (St. And., 1 yr.) are attended and the Degree examns. are passed in the Univ. granting the degree. For the purpose of reckoning duration of study an academic yr. is constituted by attendance on at least 1 course (Glas. and St. And., 2 courses) of study in each of the 3 terms. The degree is never conferred *honoris causa*. For *M.A.* (Hons.) 4 yrs.' study is generally required.

The *B.Phil.* and *B.Litt.* are conferred only by St. And. A candidate for either of these degrees must take the *M.A.* either before or along with it. The standard of the Final examn. is that of the *M.A.* Honours.

The *B.Com.* conferred by St. And., Aberd., and Edin. may be taken, under conditions as to place of study similar to those for the *M.A.*, after courses covering at least 9 terms.

The *Ed.B.* involves a 2 yrs.' course subsequent to the first 3 yrs. of study for a previous degree, in addition to Professional training or experience as a teacher.

The practical part of the training of students preparing for the *Teaching Profession* is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying in part for their certificates.

*The B.Sc. in Pure Science.* The course for the ordinary degree covers 3 yrs. (Edinburgh 4 yrs.) and includes from 6 to 9 courses, of

which 4 or 5 (St. And., 2) must be taken in the Univ. which is to grant the degree. The other courses may be taken in other Univs. or Institns. approved, or under teachers recognized for this purpose, by the Univ. Court. The degree with Honours requires 4 yrs., and is of a standard not less high than that required for M.A. (Hons.).

*The B.Sc. in Applied Science* can be obtained as follows : Engineering (St. And., ord. and hons., 3 yrs. ; Edin., ordinary and honours, both 3 yrs. ; Glas., 4 yrs., the branches in which honours are obtainable being Civ., Mech., Elec., Mining, and Chemical E., and Naval Archit. ; Aberd., ordinance in preparation). Mining Engineering (Edin., ordinary, 4 yrs.). Applied Chemistry (Glas., honours, 4 yrs.). Technical Chemistry (Edin., ordinary, 4 yrs.). Architecture (Glas., honours, 4 yrs.). Agric. (Aberd., Edin., and Glas., ordinary, 3 yrs. ; honours, 4 yrs.). Forestry (Aberd., ordinary, 3 yrs. ; Edin., ordinary, 3 yrs. ; honours, 4 yrs.). Pharmacy (Glas., ordinary, 3 yrs.). Public Health (Glas., 18 months after graduation in Med.). Vet. Sc. (Edin., 4 yrs.).

*Higher Degrees in Arts and Science.* The D.Sc. in Pure Science, in Engin. (Edin., Glas., St. And.), Pub. Health (Glas.), Mining (Edin.), Agric. (Edin.), Forestry (Edin.), and Vet. Sc. (Edin.), and the D.Litt are open to graduates of 5 yrs.' standing. A thesis is required and, except in the case of a graduate of a Scot. Univ. with an Honours degree (St. And., an Honours graduate of the Univ. granting the degree), research under supervision extending over 2 yrs. in the Univ. which is to grant the degree. These degrees are never granted *honoris causa*.

*Divinity.* The B.D. examn. of any of the Univs. is open to a graduate in Arts of a Scottish or other approved Univ. or the holder of any Univ. Degree or Diploma recognized as an equivalent by the Univ. Court who has completed his Theol. course (3 yrs.), of which not less than 2 yrs. has been in the Univ. in which he proposes to take the B.D. All the examns. must be passed at the Univ. granting the Degree. The D.D. is honorary. The Gifford Lectures in Natural Theology are open to the general public.

*Law.* The B.L. course (3 yrs.) is open to students who have passed the Prelim. or its equivalent. Candidates for the degree must produce evidence of a sufficient knowledge of Latin before entering the Class of Civil Law. The LL.B. (3 yrs.) is open to graduates in Arts of a Univ. of the U.K. or any other specially recognized.

Of the B.L. course 1 yr. and of the LL.B. 2 yrs. may be spent in any specially recognized Univ. or School of Law.

St. And. does not at present provide full courses for or grant these degrees.

The LL.D. is honorary.

*Medicine.* Three of the requisite 5 yrs. of medical study for the M.B. and Ch.B. may be spent in any Univ. of the U.K. or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ. A candidate who has at any such Univ. completed a course and passed an examn. in Chem., Physics, or Biology qualifying for a degree in Science, Arts, or Med. may be exempted by the Senatus from the corresponding part of the M.B., Ch.B. examns. Aberd., Edin., and St. And. extend this concession to courses and examns. in Anatomy and

Physiology qualifying for a degree in Science (St. And.—or Arts or Med.; Edin.—or Med.).

A graduate in Medicine of at least 24 yrs. of age who has, subsequent to graduation, been engaged for at least 1 yr. in attending the Med. (or Surg.) wards of a hosp., or in scientific work bearing directly on his profession, or in the Naval, Milit., Colonial (Aberd., Edin., Glas.), or, for the M.D. (St. And.—M.D. or Ch.M.), Pub. Health Med. Services, or 2 yrs. in practice not restricted to Surg. (or Med.), and passed the prescribed examn. and submitted a satisfactory thesis, may be admitted M.D. or Ch.M. as the case may be.

*Ph.D.* See p. 18.

**FEEs.** The Matriculation, 2 gs. *per annum*; inclusive Tuition fees *per annum* in Arts are 15 gs., in Science, 25 to 35 gs.; examn. fees for M.A., 7½ gs.; B.Sc., 9 gs.; Divinity, 7½ gs.; Law, 9 gs.; M.B., Ch.B., 33 gs.; graduation, £1. Further information is given in the several Univ. sections.

**RESEARCH OR SPECIAL STUDY** may be prosecuted in a Univ. under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus. Access to and the use of the Univ. laboratories, etc., may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students.

**APPOINTMENTS COMMITTEES** have been constituted in all the Univs. to help students to find employment.

**SCHOLARSHIPS.** Provision for affording Univ. instruction and maintenance to students of small means is probably nowhere more ample than in Scotland. Besides the Carnegie Trust benefactions (*v. infra*) and the numerous bursaries, etc., awarded by the Universities and the Trustees of unattached educational endowments, all Scottish Education Authorities make provision in their Bursary Schemes for assisting duly qualified persons resident in their areas, and needing such assistance, to attend a University, Training College, Central Institution, etc. The sum so spent by Education Authorities in the financial year 1927–28 was £131,000.

*Scholarships, etc., for Graduates.* The following are open to graduates of all the Scot. Univs.: (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research. Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh. (2) Ferguson—six of £80 each for 2 yrs. for graduates in Arts. Ferguson Bequest Fund, 94 Bath St., Glasgow. (3) M'Cunn—four of £200 for 1 yr., for medical research. M'Cunn's Trustees, 160 West George St., Glasgow. (4) Shaw Philosophical—£200 for 5 yrs. for graduates in Arts (in the Patronage of Edinburgh Univ.). (5) Black—in Greek, £196 for 1 yr. for graduates in Arts distinguished in the B.D. exams. (6) Hume Brown—in Scottish History, £65 for 1 yr. for graduates in Arts; managed by the Univ. of Edin. (7) Maclean (Semitic Languages), £175 for 1 yr. for graduates in Arts preparing to enter the Ministry of the Church of Scotland; managed by the Univ. of Glasgow. (8)

Crombie (Biblical Criticism), £50 for 1 or 2 yrs. for graduates in Arts with First Class Hons. in Classics; managed by St. Andrews. (9) Shaw Macfie Lang (Science), Endowment of £3000 for Hons. Graduates in Arts or Science; managed by Edinburgh.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Offices at Merchants' Hall, 22 Hanover Street, Edinburgh. Secretary, Jas. Robb, LL.B.; Treasurer, Jas. Davidson.

The annual income of the Trust is about £125,000, one half of which is devoted to (A) the improvement and expansion of the Universities of Scotland in the faculties of Science, Medicine, History, and Mod. Langs., and extending opportunities for scientific study and research, and Technical or Commercial Univ. education; the other half to (B) assisting Scottish students in the payment of Univ. class fees. Any surplus not required for (B) in any year is to be devoted to (A). Institutions in Scotland recognized by the Executive Committee of the Trustees as preparing students for graduation or as providing technical or commercial education of University level are entitled to participate as regards (A) and their students as regards (B). Any surplus not required for (A) or (B) may be devoted to Univ. Extension work.

The Regulations for Assistance in the payment of Class fees provide, *inter alia*, that applicants should hold the Leaving Certif. of the Scottish Educn. Dept. bearing evidence of such preliminary education as is required by the Univs. for their respective graduating curricula. Where for satisfactory reasons such Leaving Certif. has not been obtained, the Exec. Committee may accept instead what they deem equivalent evidence of attainments, provided that no applicant will be eligible who has to pass any further prelim. examn. before completing his graduating curriculum. Class Fees paid for 1927-28: St. Andrews—£4362 for 337 beneficiaries; Glasgow—£28,895 for 2448; Aberdeen—£8930 for 783; Edinburgh—£15,584 for 1316.

The annual report of the Executive Committee contains reports of experts on the work of beneficiaries under the Research Scheme and lists of papers published by them. Research Fellowships, Scholarships, and Grants awarded for 1928-29: St. Andrews—25, value £4048; Glasgow—35, value £5165; Aberdeen—17, value £2437; Edinburgh—24, value £2536. Total—101, £14,186.

Under a Fifth Quinquennial Scheme of Distribution for the period from Oct. 1, 1925, to Sept. 30, 1930, there has been allocated a sum of £231,225, distributed thus: St. Andrews centre—£38,000; Glasgow—£73,600; Aberdeen—£46,250; Edinburgh—£73,375.

THE SCOTTISH STUDENTS' INTER-UNIVERSITIES CONFERENCE. At this Conference, which is held annually, and meets in rotation at St. Andrews, Aberdeen, Glasgow, and Edinburgh, the students of the 4 Univs. discuss matters of general interest to them all. The Students' Representative Council of each Univ. sends 4 delegates, one of whom must be a woman. The convener of the International Academic Committee (v. p. 7) also attends, and each Univ.'s Union and Students' magazine are represented. The President and Secretary of the Con-

ference are the President and Secretary of the Students' Representative Council of the Univ. at which the Conference is held. A record of the work of each Conference is printed and distributed to each of the Univs. concerned. The 35th Conference was held at St. Andrews in 1929. The Inter-Universities International Academic Committee of the S.R.C.'s appoints "Academic Consuls" in the principal university centres overseas. The committee is glad to help students from overseas visiting Scotland. Information as to lodgings, etc., can be obtained from the International Academic Secretary, S.R.C. Office, University of Edinburgh.

# UNIVERSITY OF ABERDEEN

CHANCELLOR—The Right Hon. BARON MESTON OF AGRA AND DUNNOTTAR, K.C.S.I., V.D., LL.D.

VICE-CHANCELLOR AND PRINCIPAL—Very Rev. Sir GEORGE ADAM SMITH, M.A., D.D., LL.D., Litt.D., F.B.A.

RECTOR—The Right Hon. THE EARL OF BIRKENHEAD, G.C.S.I., M.A., D.C.L., LL.D. (elected 1927).

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY TO THE UNIVERSITY—H. J. BUTCHART, D.S.O., B.L.

CLERK AND REGISTRAR OF GENERAL COUNCIL, AND LIBRARIAN—W. D. SIMPSON, M.A., D.Litt.

## UNIVERSITY COURT

PRESIDENT—THE RECTOR.

THE PRINCIPAL, *ex officio*.

THE LORD PROVOST OF ABERDEEN,  
*ex officio*.

J. E. CROMBIE, M.A., LL.D.

Sir THOMAS JAFFREY, LL.D.

EDWARD W. WATT, M.A.

GEORGE DUNCAN, M.A.

GORDON JOHN MURRAY, M.A., D.D.

GEORGE SMITH, M.A., LL.D.

J. SCOTT RIDDELL, C.B.E., M.V.O.,  
LL.D., D.L., M.A., M.B., C.M.

Prof. ASHLEY W. MACKINTOSH,  
M.A., M.D.

Prof. H. M. MACDONALD, O.B.E.,  
M.A., F.R.S.

Prof. JAS. GILROY, M.A., D.D.

Prof. Sir JOHN MARNOCH, C.V.O.,  
M.A., M.B., C.M.

## PROFESSORS, LECTURERS, ETC.

*Accounting & Business Methods*

Reid, J., M.A., C.A. Lectr.

Grant, John, M.A., C.A.  
Asst. (Agric. Book-keeping).

*Agriculture*, v. also Eng., Nat.

Hist., Law, Vet. Hyg.

Hendrick, J., B.Sc. Lond.

Strathcona-Fordyce Prof.

Profeit, W. J., M.A., B.Sc. (Agr.)  
Lectr.

Donald, G., B.Sc. (Agr.) Asst.

Findlay, W. M. (Seed Testing)  
Asst.

*Agric. Botany* [Lectr.

Clouston, D., M.A., B.Sc. (Agr.)

*Agric. Chemistry* [Asst.

Hill, Alfred, B.Sc., B.Sc. (Agr.)

Moore, W., B.Sc., B.Sc. (Agr.)  
Asst.

*Anatomy*, v. also Embryol.

Low, Alexr., M.A., M.D.

Reg. Prof.

Lockhart, R. D., Ch.M. Lectr.

Hendry, A. M., M.B., Ch.B. Asst.

*Art* [Lectr.

Rollo, R. Leslie, A.R.I.B.A. (Prin-  
ciples and Hist. of Archit.)

Townend, H., M.A. (Painting)  
Lectr.

Prof. Laird

Lectr. (Theory of Art).

Prof. Harrower Lectr. (Sculpture).

*Astronomy and Meteorology*

Roberts, Owen F. T., M.A. Camb.

Lectr.

*Banking*

Cowie, R. H. Lectr.

*Bio-Chemistry*  
Beard, E., B.Sc. Lectr.

*Biology*, v. Nat Hist

*Botany*  
Craib, W. G., M.A. Reg. Prof.  
Downie, Dorothy G., B.Sc., B.Sc.  
For., Ph.D. Lectr.  
Chater, E. H., B.Sc. Asst.  
Clamp, Gertrude, B.Sc. Asst.

*Celtic and Comp. Philology*  
MacDonald, John, M.A. Reader.

*Chemistry*, v. also Agric.  
Findlay, Alexr., M.A., D.Sc., Ph.D.  
Leip. Prof.  
Gray, F. W., M.A., D.Sc. Lectr.  
Reade, T. H., M.Sc. Birm., M.A.  
Camb. Lectr.  
Humphries, J. E., M.Sc. Wales,  
B.A. Lond. and Camb., Ph.D.  
Lond., D.Sc. Lectr.  
Campbell, Alan N., M.Sc., Ph.D.  
Lond., D.Sc. Asst.  
Strathdee, R. B., M.A., B.Sc.,  
Ph.D. Asst.

*Chemistry, Clinical*  
Lyal, Alex., M.A., M.D. Lectr.

*Classics*  
Harrower, J., LL.D. Glas., M.A.  
Reg. Prof. (Greek).  
Duff, A. M., M.A., B.Litt. Ox.  
Asst. (Greek).  
Wood, Margaret, M.A.  
Asst. (Greek).  
Mackay, Isabel S., M.A.  
Asst. (Greek).  
Souter, A., M.A., D.Litt., D.D.  
Reg. Prof. (Humanity).  
Campbell, Donald J., M.A., B.A.  
Asst. (Latin).  
Box, H., B.A. Ox. Asst. (Latin).  
Little, J. R., M.A. Asst. (Latin).

*Divinity*, v. Theol.

*Economics*, v. Pol. Econ.

*Education*  
Walker, Norman T., M.A. Edin.,  
Ed.B., Ph.D. Lectr.  
Morton, D. M., M.A., B.Sc. Asst.

*Embryology*  
Purser, G. L., M.A. Edin. Lectr.

*Engineering* [Jackson Prof.  
Blackadder, W., D.Sc. Edin.  
Stewart, F. R., B.Sc. (Eng.) Glas.  
Asst. (Agric. E.).  
Cruickshank, A. Asst. " "  
Chisholm, J. A. Asst. " "  
Orkney, J. C., B.Sc. (Eng.)  
Lectr. (Elec. E.).  
Edmond, A. D., B.Sc. (Eng.)  
Lectr. (Mech. E.).  
Grassie, J. C., B.Sc. (Eng.)  
Asst. (Forest E.).

*English*, v. also Public Speaking  
Jack, A. A., M.A. Glas., LL.M.  
Camb., LL.D. Glas.  
Chalmers Prof. of E. Lit.  
Taylor, W. D., M.A. Glas., B.A.  
Ox., M.A. Lectr. (E. Lit.).  
Abbott, C. C., M.A. Lond., B.A.,  
Ph.D. Camb.  
Lectr. (E. Lang.).  
Mursell, W. A., M.A., D.D.  
(Part-time Asst.).  
Macpherson, Ian, M.A. Asst.

*Fisheries, Scientific Study of*  
Bowman, A., D.Sc. Lectr.

*Forestry*, v. also Engin. [Prof.  
Borthwick, A. W., O.B.E., D.Sc.  
Fraser, G. K., M.A., B.Sc., B.Sc.  
(For.) Lectr. in Soils.  
Laing, E. V., M.A., B.Sc. (For.),  
D.Sc. Asst.

*French*  
Shears, F. S., B.A., L. ès L.,  
D. de l'Univ. Paris Prof.  
Casati, E., L. ès L. Lyons Lectr.  
Linscott, R. A., B.A. Asst.  
Elissagaray, Josée Asst.  
Lentz, E. E. Part-time Asst.

*Geography*  
McFarlane, J., M.A. Edin., M.Com.  
Manc., B.A. Camb. Reader.  
Bremner, A., M.A., D.Sc., F.R.S.E.  
Asst.

*Geology* [Kilgour Prof.  
Gibb, A. W., M.A., D.Sc.

Mackinnon, W. G., B.Sc. Asst.

*German*

Knight, A. H. J., M.A. Reader.

Breul, Ernest D., M.A. Asst.

Weydt, G., Ph.D. Asst.

*Hebrew and Semitic Langs.*

Gilroy, J., D.D. St. And., M.A.

Reg. Prof.

*History*, v. also Law, Theol.

Terry, C. S., M.A., Litt.D. Camb.,

Hon. Mus.D. Ox. and Edin.,

D.Litt.Durh., LL.D. Glas.

Burnett-Fletcher Prof.

Henderson, J. M., M.A. Edin.

Lectr. (Brit. Hist.).

Matheson, K. C. C., M.A. Asst.

*Law*, v. *infra*

*Logic*

Ferguson, A. S., M.A. St. And.

and Ox. Reg. Prof.

Kneale, W., B.A. Asst.

*Mathematics*

Macdonald, H. M., O.B.E., M.A.,

F.R.S. Prof.

Goodwillie, J., M.A. Camb. and

Edin., B.Sc. Edin.

Lectr. & Asst.

Burnett, D., M.A., B.Sc., B.A.

Asst.

*Medicine*, v. *infra*

*Meteorology*, v. Astron.

*Music*, v. Art

*Natural History* [Reg. Prof.

Thomson, J. A., M.A., LL.D. Edin.

Neill, R. M., M.A. Glas.

Lectr. (Zool.).

Robertson, D., B.Sc. (Agr.), Ph.D.

Lectr. (Agr. Zool.).

Dean, Laura M. I., B.Sc.

Asst. (Zool.).

Cumming, Catherine M., B.Sc.

Asst. (Agr. Zool.).

*Philology*, v. Celtic

*Philosophy*, Moral

Laird, John, M.A. Edin., B.A.

Camb. Reg. Prof.

*Philosophy*, Nat.

Thomson, G. P., M.A. Camb. Prof.

Geddes, A. E. M., O.B.E., M.A.,

D.Sc. Lectr.

Griffith, H. D., B.A. Camb. Lectr.

White, Paul, B.A. Asst.

Emslie, Alfred G., M.A. Asst.

*Physiology* [Reg. Prof.

Macleod, J. J. R., D.Sc., LL.D.,

M.B., Ch.B., F.R.S.

Peterson, J. M., B.Sc. (Agr.), B.Sc.

(Expl. P.) Lectr.

Magee, H. E., B.Sc., M.B., B.Ch.,

D.Sc.

(Nutrit. Physiol.) Lectr.

Purves, C. B., B.Sc., Ph.D. Asst.

Cleghorn, R. A., M.D. Asst.

Orr, J. B., D.S.O., M.C., M.A.,

D.Sc., M.D. Glas.

Research Lectr. (P. of Nutrition).

*Political Economy*

Gray, A., M.A. Edin. Jaffrey Prof.

Macdonald, Annie, M.A. (Lectr. in

Pub. Finance) Asst.

Hamilton, H., M.A., D.Litt. Glas.

(Econ. Hist.) Lectr.

*Psychology*, *Comparative*

Knight, A. R., M.A.

Anderson Lectr.

*Public Speaking*

Mursell, W. A., M.A., D.D. (Asst.

in English) Lectr.

*Spanish*

Davidson, C., M.A. Lectr.

*Statistical Methods*

Tocher, J. F., D.Sc. Croll Lectr.

*Theology*

Baird, A. C., M.A., D.D., B.Sc.

Glas. (Bibl. Crit.) Reg. Prof.

Henderson, G. D., M.A., B.D.

Glas. (Church Hist.) Reg. Prof.

Thomson, G. T., M.A., B.D. (Sys-

tematic T.) Prof.

Gilson, Prof. E., LL.D.

Gifford Lectr.

*Veterinary Hygiene and Agr.*

*Bacteriology*

Grant, J. C., M.R.C.V.S. Lectr.

*Zoology*, v. For., Nat. Hist.

**Law**

Stuart, A. M., K.C., LL.B. Edin.,  
M.A. Prof.  
Edwards, J. H., LL.B.  
Part-time Asst.  
Troup, A. D., LL.B.  
Tutor in Law.

*Conveyancing*

Morrison, A. C., O.B.E., M.A. St.  
And., LL.B. Glas. Prof.

*Constit. L. and Hist.*

Williamson, R. M., LL.B. Edin.,  
M.A. Lectr.

*Internat. L., Public and Private*  
Duncan, G., M.A. Lectr.

*Procedure and Evidence*

Blacklaw, A., M.A. Clark Lectr.

*Roman Law*

Masson, R. P., LL.B. (Asst. in  
*Agric. L.*) Lectr.

*Mercantile Law*

Esslemont, W. D., M.A., B.L.  
Lectr.

*Agricultural Law*

Wilson, N. J., M.A., LL.B. Asst.

Medicine (for subjects of the first  
2 yrs.—Anat., etc., v. *supra*)

*Bacteriology*

Cruikshank, J., M.D., D.Sc. Glas.  
Kerrin, J. C., M.B. Asst.

*Forensic Med.*

..... Prof.  
Richards, R., M.A., M.D.,  
F.R.C.S.E. Lectr.  
Williamson, G., M.A., M.B. (Med.  
Ethics) Lectr.

*Director of Physical Training*

Brocks, Capt. A. W., M.C., M.B.E.  
Campbell, Mrs. E. M. Asst.

*Materia Medica*

Marshall, C. R., M.A. Camb., M.D.  
Manc., LL.D. Reg. Prof.  
Hendry, A. W., M.D. Asst.  
Marshall, W., M.A., B.Sc., M.D.  
Asst.

*Medicine*

[Reg. Prof.]

Mackintosh, A. W., M.A., M.D.  
Johnston, J., M.B., Ch.B. (Anæs.)  
Lectr.  
Mackenzie, J. R., M.D. (Anæs.)  
Lectr.  
Fraser, T., C.B.E., D.S.O., M.A.,  
M.B., Ch.B. (Clin.) Lectr.  
Croll, W. F., M.A., M.D. (Clin.)  
Lectr.  
Anderson, A. G., M.A., M.D.,  
M.R.C.P. Part-time Asst.  
Craig, J., M.B., Ch.B.  
Part-time Asst.

*Midwifery*

[Reg. Prof.]

McKerron, R. G., M.A., M.D.  
Semple, R., O.B.E., M.D.  
Part-time Asst.

*Ophthalmology*

Souter, W. C., M.D., D.O. Lectr.  
Galloway, A. R., O.B.E., M.A.,  
M.B., C.M. Lectr.

*Pathology*

[Wilson Prof.]

Shennan, T., M.D. Edin.  
Gray, J., M.D. Edin. Asst.  
Thomson, James G., M.B., Ch.B.  
Asst.  
..... Georgina McRobert  
Lectr. (Cancer Re-  
search).

*Public Health*

[Lectr.]

Rae, H. J., M.C., M.A., M.B.,  
Ch.B., D.P.H. Lectr.  
Berry, D. W., M.D., D.P.H. Lectr.  
Merewether, Edward R. A., M.D.  
Lectr.  
Peterkin, H., M.A., M.B., Ch.B.  
(Diseases of the Ear, Nose,  
and Throat) Lectr.  
Brown, J., M.B., Ch.B., D.P.H.  
(Vaccination) Lectr.  
Brown, R. D., M.D., F.R.C.P.E.  
(Mental Diseases) Lectr.  
Christie, J. F., M.A., M.B., C.M.,  
F.R.C.P. (Diseases of the Skin  
and Venereal) Lectr.

*Radiology and Electro-Thera-  
peutics*

Levack, J. R., M.B., C.M. Lectr.

<i>Surgery</i>		Mitchell, A., M.A., Ch.B. (Diseases of Children) Lectr.	
Marnoch, Sir J., C.V.O., M.A., M.B., C.M. Reg. Prof.			
Anderson, William, M.B., Ch.B., F.R.C.S. Asst.		<i>Tropical Medicine</i>	
Bruce, G. G., M.B., Ch.B., F.R.C.S. Asst.		Williamson, G. A., D.T.M. Liv., M.A., M.D. Lectr.	
Smith, F. K., M.A., M.B., Ch.B. (Clin.) Lectr.		<i>Tuberculosis</i> [Lectr.	
Colt, G. H., M.A., M.B., F.R.C.S. (Clin.) Lectr.		Banks, G. S., M.B., Ch.B., D.P.H. Brown, W., O.B.E., M.B., Ch.B. (Diseases of Children) Lectr.	

## ASSOCIATED COLLEGES

NORTH OF SCOTLAND COLLEGE OF AGRICULTURE.

ROBERT GORDON TECHNICAL COLLEGES.

## GENERAL INFORMATION

The "University and King's College of Aberdeen," founded under a Papal Bull in 1494, and the "Marischal College," founded in 1593 by George Keith, Earl Marischal, were reconstituted in 1860 as "The University of Aberdeen." Certain of the original buildings remain, notably the Chapel (A.D. 1500).

The LIBRARY, founded in 1500, has 250,000 vols. and 200 Incunabula, some unique. It is especially rich in Celtic literature, and books bearing on the history, topography, and antiquities of the Scottish Highlands, and Classical Archaeology. Annual budget about £3500. MUSEUMS: Anthropological (illust. cat. rs.), Surgical (2500 specimens and 600 instruments), etc. Besides the usual LABORATORIES there is the Rowett Institute of Research in *Animal Nutrition* near Bankhead, with departments of Physiology, Bio-Chemistry, Bacteriology and Pathology, and attached Animal Husbandry section for practical experiments in feeding, etc. It is under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics: Infirmary, 132 beds; Children's, 366; Fever, 350; Mental Hospital, 900; Maternity Hospital, 32; Ophthalmic Institution, 5.

FACULTIES. Arts, Science, Divinity, Law, Medicine. Deans: Profs. Souter, Craib, Baird, Stuart, Low.

Departments: Commerce, Education.

DEGREES, ETC. For Diploma course in For. (2 yrs.) there is a Prelim. examn. in Engl. and Maths. The papers in the Final examn. and for the B.Sc.For. are the same. Diplomas are also conferred in Public Health (D.P.H.) and in Fine Art (History and Theory). A Cert. in Fine Art and a Cert. in Educ. are also granted.

The following Univs. have been recognized by the Univ. Court *pro tanto* as institutions in which 3 of the requisite 5 yrs. of medical study may be taken, provided the prescribed conditions are fulfilled. Each application for exemption must be submitted to and approved by the Univ. Court: Bom., Calc., Mad., Adel., Melb., Syd., N.Z., S.Africa, Dal., Queen's (Kingston), Tor., McGill, Chic., Corn., J.H.U., Harv., Stanf., Mich., Penn., Yale. Individual teachers in other Univs. may be recognized upon satisfying the Univ. Court with respect to their courses. The following have been recognized in respect of courses and examns. in Bot., Zool., Biol., Physics, and Chem. qualifying for a degree in

Sci. or in Arts or in Med. : Bom., Calc., Mad., All., Panj., Rangoon, Melb., Syd., Adel., Queen's (Kingston), McGill, Tor., Mani., S.Africa, Brit. Col., Calif., Chic., Columbia, Corn., Harv., J.H.U., Illin., Iowa, Maryl., Mich., Miss., Penns., Stanf., Wash., West. Reserve, Wisc., Yale. Each application for exemption must be submitted to and approved by the University Court. The courses and examn. in Anat. and Physiol. for the Sci. degree of the Univ. of Cape Town have been recognized.

**FEES** (v. Carnegie Trust). Inclusive fees for tuition : B.D., 40 gs. ; LL.B., 40 gs. (28 gs. for a M.A. of the Univ.) ; B.L., 30 gs. ; M.A. and B.Sc. taken together, 112½ gs. ; M.A. and B.Com., 75 gs. ; B.Sc. and B.Com., 112½ gs. ; M.B., Ch.B., 126 gs. ; M.A., M.B., Ch.B., 156 gs. ; B.Sc., M.B., and Ch.B., 168 gs. ; M.A., B.Sc., M.B., and Ch.B., 202 gs. ; M.A. (Hons.), 60 gs. ; B.Com., 45 gs. ; B.Sc. (Pure Science, Agriculture, Forestry, and Engineering), 90 gs. ; B.Sc. (Hons.), 100 gs. ; M.A. (Hons.) and B.Sc., 127½ gs. The total cost of the whole medical curriculum, including hospital fees, classes, matricn., and degree fees, is usually about £242. The degree fees for the Doctorates are from 10 to 20 gs. The class and examn. fees for the D.P.H. are 36 gs. ; for the Dipl. in Hist. and Theory of Fine Art, and for the Cert. in Fine Art, 8 gs. and 15 gs. respectively.

**SCHOLARSHIPS, ETC.**, for graduates, about 25 ; aggregate annual value about £1600. *Travelling Scholarships* : Anderson, for medical graduates, about £200 p.a. ; Kilgour, £250 for graduates in Natural Science or Natural History ; Robbie, £100 p.a. in Maths., Nat. Philos., and Chem. *Travelling Fellowship* : Wilson, for archæological research in the Near East, £300 p.a. for 2 yrs., next appointment, 1931. Particulars obtainable from Sec. to Wilson Trustees, A. Martineau, 1 Golden Square, Aberdeen.

**RESIDENCE.** List of lodgings kept by Students' Repve. Council.

**PHYSICAL WELFARE OF STUDENTS.** There is a Dir. of Phys. Tg. (an officer of the Army), with a woman asst. for women students.

**PUBLICATIONS.** *Calendar* (Sept.), 4s. 6d. ; *Univ. Review*, 7s. 6d. p.a. (3 issues) ; *Students' Handbook* (Nov.), 1s. ; *Alma Mater* (organ of S.R.C.) ; *Univ. Libr. Bulletin*, 2s. 6d. p.a. (2 issues).

## THE YEAR 1928-29

**BENEFACTIONS.** The late W. C. Dyce, for general purposes, £120. Lord Beaverbrook, for X-ray equipment in Anat. Dept., £1000. The late Dr. A. Gilchrist, for Bursaries in Arts and Med., £1143. Carnegie Trust, for various purposes, £13,654.

**HONORARY DEGREES.** *D.D.*—Alexander R. Gordon, George Lawson, John Lendrum, Theodore H. Robinson, William Watson. *LL.D.*—The Most Hon. The Marchioness of Aberdeen and Temair, The Rt. Hon. the Earl of Birkenhead, Major Walter Elliot Elliot, M.P., Roger Fry, The Rt. Hon. Sir Robert S. Horne, William Still Littlejohn, The Hon. Lord Mackay, Alfred Edward Taylor, Major-General Sir Fabian Ware.

**NEW POSTS.** Lectrs., Music (Part-time), Nutrit. Physiol. (Part-time). Assts., French, Bot., Physiol., Pub. Health, Surg. (Part-time), Practice of Med. (Part-time).

**NEW BUILDINGS.** Progress is being made with the erection of the new Examination Hall and additional Class-rooms at King's College. In connexion with the Joint Hospital Scheme the site has been acquired at Foresterhill,

Aberdeen, for the erection of buildings to accommodate certain Medical Departments.

DEATHS. Sir A. Ogston, K.C.V.O., M.D., Prof. Emer. of Surgery ; W. L. Davidson, LL.D., Prof. Emer. of Logic.

RESIGNATIONS. W. H. Bruford, Reader in German, on appt. to Chair of Germ. in Edin. Univ. ; G. Redington, Lectr. in Plant Physiol. ; A. S. Watt, Lectr. in For. Bot. and For. Zool.

STUDENTS. Full-time : total, 1385.

DEGREES, ETC. D.Litt., 1 ; Ph.D., 5 ; M.A., 218 ; D.Sc., 4 ; B.Sc., 24 ; B.Sc. (Agr.), 7 ; B.Sc. (For.), 1 ; B.Sc. (Eng.), 9 ; B.Com., 11 ; B.D., 3 ; LL.B., 6 ; B.L., 2 ; M.D., 19 ; M.B., Ch.B., 44. Diplomas : Agric., 2 ; For., 3 ; Pub. Health, 10. Certificates : Education, 2.

# UNIVERSITY OF EDINBURGH

CHANCELLOR—Rt. Hon. THE EARL OF BALFOUR, K.G., O.M., D.C.L.  
 VICE-CHANCELLOR AND PRINCIPAL—Sir THOMAS H. HOLLAND, K.C.S.I.,  
 K.C.I.E., D.Sc., LL.D., F.R.S.  
 RECTOR—Rt. Hon. WINSTON CHURCHILL, P.C., M.P. (elected 1929).  
 DEANS OF FACULTIES. See under "General Information"—Faculties.  
 SECRETARY TO THE UNIVERSITY—W. A. FLEMING, M.A., LL.B.,  
 Advocate.

## UNIVERSITY COURT

PRESIDENT—THE RECTOR, <i>ex officio</i> .	J. B. CLARK, M.A., LL.D.
THE PRINCIPAL, <i>ex officio</i> .	ALEXANDER MILES, M.D., LL.D.
THE Rt. Hon. THE LORD PROVOST OF EDINBURGH, <i>ex officio</i> .	Prof. Sir T. HUDSON BEARE, B.A., B.Sc., M.I.C.E.
THE Hon. LORD BLACKBURN.	Prof. NORMAN KEMP SMITH, M.A., LL.D., F.B.A.
THE Rt. Hon. LORD SALVESEN.	Prof. Sir ROBERT W. PHILIP, M.D., LL.D.
COUNCILLOR J. D. PHILIPS SMITH.	Prof. E. T. WHITTAKER, M.A., Sc.D., LL.D., F.R.S.
J. ROBERTON CHRISTIE, O.B.E., K.C.	
SIR NORMAN WALKER, M.D., LL.D.	

## PROFESSORS, LECTURERS, ETC.

<i>Accounting and Business Method</i>	Jamieson, E. B., M.D.	Lectr.
Annan, W., C.A.	Prof. Wood, W. Q., M.B.	Lectr.
Keddie, C., C.A.	Asst. Jardine, F. E., M.B. (A. and Ap- plied A.)	Lectr.
<i>Actuarial Science</i>	<i>Anatomy, Comparative</i>	
Reid, A. R., M.A., F.F.A., F.I.A.	Bradley, O. C., M.D., D.Sc.	Lectr.
	Grahame, Tom, M.R.C.V.S.	Asst.
Haynes, A. T., F.I.A.	<i>Anatomy, Morbid</i>	
<i>Agriculture and Rural Economy</i>	Davidson, James, M.B.	Lectr.
v. also Bot. and Forestry	<i>Anthropology and Prehistoric</i>	
Shearer, E., M.A., B.Sc.	<i>Archæol.</i>	
More, J. A., B.Sc.	Childe, Prof. V. G. Munro	Lectr.
Gordon, J. Evans, B.Sc.	<i>Arabic</i>	
<i>Agric. and Forest Entomol.</i>	Bell, Richard, M.A., D.D.	Lectr.
Williams, C. B., M.A.	<i>Prehistoric Archaeology</i>	
<i>Anatomy</i>	Childe, V. G., M.A. Syd., B.Litt.	
Robinson, A., M.D.	Prof. Ox.	Prof.

- Art (Fine Art)*  
 Brown, G. Baldwin, M.A. Ox., LL.D. Prof.  
 Nicolson, Catherine A., M.A. Asst.
- Astronomy*  
 Sampson, R. A., M.A. Camb., D.Sc., F.R.S. Reg. Prof.
- Banking*  
 McNeil, A., S.S.C. Bruce Lectr.
- Biology, v. Nat. Hist.*  
*Botany, v. also Forestry*  
 Smith, Wm. Wright, M.A., F.R.S. Reg. Prof.  
 Wilson, M., D.Sc. (Mycol. and Bacteriol.) Reader.  
 Smith, J. L. S., M.A., B.Sc. (Forest B.) Lectr.  
 Graham, R. J. D., D.Sc. (Plant Physiol.) Lectr.
- Celtic Languages, etc.*  
 Watson, W. J., M.A. Ox., LL.D. Prof.
- Chemistry*  
 Kendall, James P., M.A., D.Sc., F.R.S.  
 Mackenzie, J. E., D.Sc., Ph.D. Reader.  
 Kay, S. A., D.Sc. Lectr.  
 Rule, H. G., Ph.D., D.Sc. Lectr.  
 Butler, J. A. V., M.Sc. Lectr.  
 Bolam, T., M.Sc. Lectr.  
 Lydlam, E. B., M.A., D.Sc. Lectr.  
 Shoesmith, John B., D.Sc. Lectr.  
 Miller, Miss C. C., M.Sc., Ph.D. Lectr.  
 Bolam, Mary R. (Mrs.), B.Sc., Ph.D. Asst.  
 McCall, C. H. M., B.Sc. Asst.  
 7 other Assts.
- Chemistry in relation to Medicine*  
 Barger, G., M.A. Camb., D.Sc., F.R.S. Prof.  
 Stewart, C. P., M.Sc. Durh., Ph.D. Lectr.  
 Stedman, E., B.Sc., Ph.D. Lectr.  
 Stedman, Ellen (Mrs.), M.Sc. Lectr.  
 Girardet, A., B.Sc. Asst.  
 Davidson, L. D., B.Sc. Asst.
- Mitchell, R., B.Sc. Asst.  
 Easson, L. H., B.Sc. Asst.
- Chemistry, Technical*  
 Bain, David, D.Sc. Lectr.
- Classics, Greek*  
 Pickard-Cambridge, A. W., M.A. Ox. Prof.  
 Forbes, P. B. R., B.A. Camb. Lectr.  
 Luckhurst, K. W., B.A. Lectr.
- Classics : Latin*  
 Richmond, O. L., M.A. Camb. Prof.  
 Cameron, A., M.A. Lectr.  
 Potter, K. R., M.A. Lectr.  
 Smith, W. K., B.A. Lectr.  
 Nicolson, Miss C. A., M.A. Asst.  
 Tennant, Miss M. K., M.A. Asst.
- Commerce, and Organization of Industry*  
 Oliver, W., B.Sc. (v. also Acc., Banking) Prof.
- Commercial and Polit. Econ. and Merc. Law, v. also Law*  
 Ogilvie, F. W., M.A. Ox. Prof.  
 Birnie, A., M.A. (Econ. Hist.) Lectr.  
 Rankin, Mary T., M.A., D.Phil. Lectr.  
 Joynt, Thomas A., M.A. Lectr.  
 Fenelon, K. G., M.A., Ph.D. Lectr.  
 Aitken, A. C., D.Sc. (Statistics and Math. Econ.) Lectr.
- Social Economics*  
 Milnes, Nora, B.Sc. Lectr.
- Cytology, v. Nat. Hist.*  
*Divinity*  
 Paterson, W. P., LL.D. Penn., M.A., B.D., D.D. Prof.  
 Robertson, Prof. Edward Gunning Lectr.  
 Curtis, W. A., M.A., B.D., D.Litt., D.D. Reg. Prof. of Biblical Criticism & Bib. Antiq.  
 Mackinnon, J., M.A., Ph.D., D.D. Reg. Prof. of Eccl. Hist.

- Manson, Prof. W., B.D. Lectr.  
 Simpson, Prof. J. Y., D.Sc. Lectr.  
 Mackintosh, Prof. H. R., D.Phil.,  
     D.D. Lectr.  
 Watt, Prof. H., B.D. Lectr.  
 Welch, Prof. A. C., D.D., Th.D.  
     Lectr.  
 Perry, P'pal. W., D.D. Lectr.  
 Hughes, P'pal. G. H., B.D., D.Litt.  
     Lectr.  
 Lamont, D., D.D. Lectr.  
 Miller, J. H., C.B.E., D.D. Lectr.  
 Thornton, C. T., M.A., B.D. Lectr.  
 Morrison, J., D.D. Asst.  
 Mathers, J., O.B.E., B.D. Asst.  
     *Gifford Lectr. on Nat. Theol.*  
 Söderblom, N.  
     *Economics, v. Comm.*  
     *Education*  
 Thomson, Godfrey H., D.Sc.,  
     Ph.D. (Dir. of Studies of the  
     Provincial Training College)  
     Prof.  
 Milne, A., D.Sc. Lectr.  
 Drummond, Margaret Lectr.  
 Bickersteth, Marguerite E., Ph.D.  
     Asst.  
 Samuel, Eliz., M.A. Asst.  
 Thomson, Miss E. M., M.A., B.Ed.  
 Borland, Miss J., M.A.  
     *Engineering*  
 Beare, Sir Thos. Hudson, B.A.,  
     B.Sc. Adel. Reg. Prof.  
 Todd, J. B., B.Sc., Ph.D.,  
     (Surv. & Hydraulics) Lectr.  
 Gordon, W., B.Sc., Ph.D.  
     (Strength of Mats.) Lectr.  
 Stewart, J. F. (Forest Engin.)  
     Lectr.  
 Stewart, David S., B.Sc., Ph.D.  
     Lectr.  
 Patterson, C. Lectr.  
 Stocks, G. M. Asst.  
 Macrae, M. B., B.Sc. Asst.  
 Low, J. M., B.Sc. Asst.  
     *English Lit. and Rhetoric*  
 Grierson, H. J. C., M.A. Aberd.,  
     B.A. Ox., LL.D. St. And.  
     Reg. Prof.  
 Kitchin, G., M.A., D.Litt. Lectr.  
 Dickins, Bruce, M.A. Reader.  
 Bullough, G., M.A. Lectr.  
 Clark, A. M., M.A. Lectr.  
     *Entomology, v. Agric.*  
     *Forestry, v. also Agric., Bot.,*  
     *Engin.*  
 Stebbing, E. P., M.A. Prof.  
 Pike, J. L., M.A., B.Sc. Lectr.  
 Fergusson, D. C., B.Sc. Lectr.  
     *French and Rom. Philol.* [Prof.  
 Sarolea, C., K.O.L., Ph.D., D.Litt.  
     Liège, D.Jur. Cleve., LL.D.  
 Moore, J. M., M.A. Lectr.  
 Burns, Mary, M.A., D. de l'U.  
     Paris Lectr.  
     4 Assts.  
     *Genetics, Animal* [Prof.  
 Crew, F. A. E., M.D., Ph.D., D.Sc.  
 Wiesner, B. P., Ph.D. Lectr.  
 Greenwood, A. W., Ph.D. Lectr.  
 Smith, A. D. B., M.A., M.Sc.  
     Lectr.  
 Miller, W. C., M.R.C.V.S. Lectr.  
 Calder, D. A. Asst.  
     *Geography*  
 Ogilvie, Alan G., M.A., B.Sc. Ox.  
     Reader.  
 Linton, D. L., B.Sc. Lectr.  
 Geddes, A., D. ès L. Lectr.  
     *Geology*  
 Jhu, T. J., M.A., M.D. Reg. Prof.  
 Campbell, R., M.A., D.Sc. (Petro-  
     logy) Reader.  
 Finlay, T. M., M.A., B.Sc.  
     (Palæont.) Lectr.  
 Craig, Robert, M.A., B.Sc. (Econ.  
     Geol.).  
     *German and Teutonic Philol.*  
 Bruford, W. H., M.A. Camb. Prof.  
 Eggeling, H. F., M.A. Lectr.  
 Barker, Marie L., Ph.D.  
     Research Fellow and Lectr.  
 M'Neill, B. E., M.A. Asst.  
     *Hebrew and Semitic Langs.*  
 Kennedy, A. R. S., M.A., D.D.  
     Glas. and St. And. Prof.  
 Cameron, D., B.D. Asst.

*Histology*, v. *Physiol.**History*, v. also *Comm.*, *Div.*

Williams, A. F. Basil, M.A. Prof.

Heatley, D. P., M.A. (Political  
Science) Reader.Balfour-Melville, E. W. M., M.A.  
Lectr.

Vinogradoff, I., B.A.

Lectr. (Medieval and Gen.  
European).

Horn, D. B., M.A., D.Litt. Lectr.

Simpson, M., M.A. Asst.

*History, Ancient (Gk. & Roman)*Giles, A. F., M.A. Edin. and Ox.  
Reader.*History, Ancient, and Palæog.*Hannay, R. K., M.A. Glas., LL.D.  
St. And. and Ox. Prof.

Lemon, Miss E., M.A. Asst.

*History (Constitn. of the B. Emp.,  
etc.)*

Keith, Prof. A. B. Lectr.

*History, Const. and Const. Law*

Dykes, D. O., LL.B. Prof.

Philip, J. R., M.A., LL.B. Asst.

*Italian*

Purves, J., M.A. Lectr.

Rankin, R. A. S. Asst.

*Law*, v. *infra**Logic and Metaphysics*, v. *Philos.**Mathematics*Whittaker, E. T., M.A. Camb.,  
Sc.D., F.R.S. Prof.Horsburgh, E. M., M.A., D.Sc.  
Reader.

Gibb, D., M.A., B.Sc. Lectr.

Aitken, A. C., D.Sc. Lectr.

Ruse, H. S., B.A. Lectr.

McCrea, W. H., B.A., Ph.D.  
Camb. Lectr.

Semple, J. G., B.A. Camb. Lectr.

*Mathematics, Applied*

Schlapp, R., Ph.D. Camb. Lectr.

*Medicine and Surgery*, v. *infra**Mining*Briggs, H., Ph.D., D.Sc.  
Hood Prof.*Music*Tovey, D. F., B.A., D.Mus. Ox.,  
Mus.M. Reid Prof.

Shirlaw, M., Mus.D. Lectr.

Dunn, J. P., Mus.D. Lectr.

Grierson, Mary, Mus.D. Lectr.

*Natural History and Zoology*Ashworth, J. H., D.Sc., F.R.S.  
Prof.

O'Donoghue, C. H., D.Sc. Lectr.

Cameron, T. W. M., D.Sc.,  
M.R.C.V.S. (Helminthology)

Bennett, A. L., B.A. Lectr.

Hobson, A. D., M.A.  
Lectr. (*Cytology and Exp.*  
*Zool.*).

Cameron, A. E., M.A., D.Sc. Lectr.

Simpson, J. Y., D.Sc.  
Lectr. (*Evolution*).

Harvey, Leslie A., B.Sc.

Lectr. (*Zool.*).

Hilton, Irene A. T., B.Sc. Lectr.

*Palæontology*, v. *Geol.**Petrology*, v. *Geol.**Philology*, v. *French*, *Ger.*, *Sansk.**Philosophy*Smith, N. Kemp, M.A., D.Phil.  
St. And., LL.D. Prof.Hardie, R. P., M.A. (Ancient P.)  
Reader.

MacLennan, R. D., M.A. Lectr.

MacLagan, W. G. Asst.

*Philosophy, Moral*, v. also *Psych.*

Taylor, A. E., M.A., D.Litt. Prof.

Barker, H., M.A. Lectr.

Yates, B. Lund Asst.

*Philosophy, Natural*

Barkla, C. G., M.A. Camb., D.Sc.

Liv., F.R.S., Nobel Laureate.

Darwin, C. G., M.A. Camb., F.R.S.

Tait Prof.

Carse, G. A., M.A., D.Sc. Reader.

Milne, J. R., D.Sc. Lectr.

Childs, C. B., Ph.D. Lectr.

Paton, J., M.A., B.Sc. Lectr.

Clark, R. J., Ph.D.

Lectr. (*Physics*).

Kay, J. S., M.A. Asst.  
 Honeyman, A., M.A. Asst.  
 Ross, Marion A. S., M.A. Asst.

*Physiology*

Schafer, Sir E. A. Sharpey, LL.D.,  
 F.R.S. Prof.

Taylor, W. W., M.A., D.Sc.  
 Lectr. (*Chemical P.*)

Cameron, May L., M.A., B.Sc.,  
 M.B. (Histol.) Lectr.

Bruce, A. N., M.D., D.Sc. (P. of  
 Nervous System) Lectr.

Dryerre, H., Ph.D., M.R.C.S. „  
 Kennedy, W. P., B.Sc., M.B.,  
 Ph.D. Asst.

Cameron, J. D. S., M.B. Asst.  
 Bain, W. A., B.Sc. Asst.

2 Technical Assts.

*Pol. Econ.*, v. Comm., Hist.

*Psychology*

Drever, J., M.A., B.Sc. Lond.,  
 D.Phil. Reader.

Collins, Mary, M.A., B.Ed., Ph.D.  
 Lectr.

Fairbairn, W. R. D., M.A., M.B.  
 Asst.

Sutherland, J. D. Asst.

*Public Health*

Lelean, P. S., C.B., C.M.G. Prof.  
 Langrishe, J. du P., M.B., D.P.H.  
 Lectr.

Sutherland, I. N., M.B. Asst.

*Public Health: Sanitary Administration*

Robertson, Wm., M.D. (M.O. for  
 the city)

Sr. Lectr. and Director of  
 Instruction.

*Rhetoric*, v. English

*Sanskrit and Comp. Philol.*

Keith, A. Berriedale, M.A., D.Litt.,  
 D.C.L. Reg. Prof.

*Semitic Langs.*, v. Hebrew

*Spanish*

Walton, L. B., M.A., B.Litt. Ox.  
 Lectr.

Wilson, John, M.A. Asst.  
 Meek, J. M., M.A. Asst.

*Statistics*, v. Comm.

*Theology*, v. Divinity

*Zoology*, v. Nat. Hist.

*Law*

*Administrative Law*

Wood, P. F., C.B., K.C., M.A.,  
 LL.B., M.A. Ox. Reader.

*Agricultural Law*

Cowan, John, LL.B., K.C. Lectr.

*Civil Law*

Mackintosh, J., K.C., M.A. St.  
 And., B.A. Ox., LL.D. Prof.

Thomson, G. R., B.A., LL.B.  
 Asst.

*Constitutional Law*, v. Hist.

*Conveyancing*

Wedderburn, E. M., LL.B., D.Sc.,  
 W.S. Prof.

Campbell, A., LL.B., W.S. Asst.

*English Law*

Gibb, A. D., LL.B., Adv. and Bar-  
 at-Law Lectr.

*Evidence and Procedure*

Lewis, W. J., M.A. Ox., B.L., S.S.C.  
 Reader.

*Industrial Law*

Taylor, J. O., M.A., LL.B. Lectr.

*International Private Law*

Garrett, Wm., M.A., LL.B. Lectr.

*International Public Law*

Wilson, Wm., M.A., LL.B.  
 Reg. Prof.

Mackinnon, J. A. R., M.A., LL.B.  
 Lectr. and Asst.

*Mercantile Law*, v. also Comm.

Lillie, J. A., LL.B. Lectr.

Taylor, T. M., LL.B. Asst.

*Scots Law*

Henderson, R. C., K.C., LL.B.  
 Milne, C. B., M.A., LL.B.

Lectr. and Asst.

Medicine (for subjects of the first  
2 yrs.—Anat., etc., v. *supra*)

*Bacteriology*, v. Path.

*Children, Diseases of*

M'Neill, C., M.D.	Lectr.
Carmichael, N. S., M.B.	Lectr.
Thatcher, L. H. F., M.D.	Lectr.
Hertzfeld, Gertrude, M.B.	Lectr.
Dott, N., M.B.	Lectr.
Murray, J. M'N., M.B.	Asst.
Finlay, T. Y., M.D.	Asst.
Alexander, W. A., M.B.	Asst.

*Dental Diseases*

Gibbs, J. H., F.R.C.S., L.D.S.	Lectr.
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*Dermatology, Clinical.* See "Clinical Teaching Staff"

Cruikshank, Alastair, L.R.C.P. and S.	Clin. Tutor.
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*Eye, Diseases of the.* See "Clinical Teaching Staff"

Metivier, Vivian M., M.B.	Clin. Tutor.
Paterson, J. R., M.B.	Clin. Tutor.

*Forensic Med.* [Reg. Prof.]

Smith, S. A., M.D., Ch.M.	
Mason, Victor H., M.B.	Asst.
Campbell, R. W. H., M.B.	Asst.

*Gynæcology, Syst. and Clin.* See  
"Clinical Teaching Staff"

*History of Med.* [Lectr.]

Comrie, J. D., M.A., B.Sc., M.D.	
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*Infective Fevers*

James, A., M.D.	Lectr.
Benson, W. T., M.D.	Lectr.

*Laryng., Ot., and Rhinology.* See  
"Clinical Teaching Staff"

Stewart, J. P., M.B.	Asst.
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*Materia Medica* [Prof.]

Clark, A. J., B.A., M.D., F.R.C.P.	
White, A. C., Ph.D.	Lectr.
Affleck, A. M., M.B.	
Percival, G. H., M.B.	Asst.
Walker, A. B., M.B.	
1 Tech. Asst.	

*Medicine*

Ritchie, W. T., M.D.	Prof.
Davidson, L. S. P., M.D.	Lectr.
M'Crie, J. G., M.B.	Asst.

*Medicine, Clinical.* See "Clinical Teaching Staff"

Slater, J. K., M.B.	Asst.
7 Clin. Tutors.	

*Mental Diseases*, v. Psychiat.

*Midwifery and Diseases of Women.* See "Clinical Teaching Staff"

3 Tutors, and 1 Tech. Asst.	
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*Neuro-Pathology*

Reynolds, F. E., M.B.	Lectr.
Carmichael, R., M.B.	Supervisor.

*Pathology and Bacteriology*, v.  
also Anat.—Morb.

Smith, J. Lorrain, M.A., M.D., LL.D., F.R.S.	Prof.
Mackie, T. J., M.D.	

Irvine Prof. (Bact.).

M'Lachlan, D. G. S., M.B.	Lectr.
Alston, J. M.	Lectr.
Gibson, H. J., M.B.	Asst.
Brown, Th. G.	Asst.
Rettie, T., D.Sc.	Lectr.
Macgregor, Agnes R., M.B.	Asst.
Carmichael, R., M.B.	Asst.
Millar, W. G., M.B.	Lectr.
Illingworth, C. F. W., M.B.	Asst.
Muir, R.	Demr. of Methods.

*Psychiatry*

Robertson, G. M., M.D.	Prof.
M'Alister, W., M.B.	Lectr.
Clarkson, R. D., B.Sc., M.D.	Lectr.
Spence, T. R. C., M.C., M.B., Ch.B.	Asst.
M'Niven, Angus, M.B.	
Clin. Tutor.	

*Radiology and Electrical Therapeutics* [Lectr.]

Morison, J. M. Woodburn, M.D.	
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*Sanitary Administration*, v. *supra*

*Surgery. See "Clinical Teaching Staff"*

7 Clin. Tutors.

1 Tech. Asst.

1 Teacher of Anæsthetics.

*Therapeutics and Clinical Medicine*

Lyon, D. Murray, M.D., D.Sc. Prof.

Lambie, C. G., M.B. Asst.

Gilchrist, A. R., M.B. Lectr.

Dunlop, D. Melville, M.B.

Physiological Asst.

Gaddie, R., B.Sc. Asst.

Murray-Lyon, R. M., M.B. Asst.

*Tropical Climates Diseases*

Greig, Lt.-Col. E. D. W., C.I.E.,

I.M.S. Lectr.

*Tuberculosis*

Philip, Sir Robert W., M.A., M.D.,

LL.D. Prof.

Hewat, A. F., M.B. Asst.

Simpson, J. C., M.B. Asst.

*Venereal Diseases*

Lees, David, M.D. Lectr.

Liston, Mary F., M.B. Asst.

Lees, R., M.B. Asst.

Batchelor, R. C. L., M.B. Asst.

*Clinical Teaching Staff*

*Clinical Surgery*

*Surgeons-in-Ordinary*

Chiene, George L., M.B., Ch.M.

Stuart, W. J., M.B., Ch.B.

Struthers, J. W., M.B., Ch.B.

Wilkie, D. P. D., M.D., Ch.M.

Wade, Henry, M.D.

Fraser, John, M.D., Ch.M.

Graham, J. M., M.B., Ch.M.

*Asst. Surgeons :*

Watson, A. Pirie, M.B., Ch.M.

Jardine, F. E., M.B.

Wood, W. Q., M.D., Ch.M.

Shaw, J. J. M., M.B.

Mercer, Walter, M.B.

Cochrane, W. A., M.B.

Brown, K. Paterson, M.B.

Stewart, R. L., M.B.

Miller, T. M'W., M.B.

*Clinical Medicine*

*Physicians-in-Ordinary :*

Watson, D. Chalmers, M.D.

Bramwell, Edwin, M.D.

Matthew, Edwin, M.D.

Eason, John, M.D.

Ritchie, W. T., M.D.

Lyon, D. Murray, D.Sc., M.D.

Comrie, J. D., M.D.

Goodall, Alex., M.D.

*Asst. Physicians :*

Mathewson, G. D., M.B.

Hewat, A. Fergus, M.D.

Watson-Wemyss, H. L., M.D.

Lambie, C. G., M.B.

Small, W. D. D., M.D.

Rutherford, Andrew, M.B.

Alexander, W. A., M.B.

Davidson, L. S. P., M.D.

*Clinical Gynæcology*

*Gynæcologists :*

Johnstone, R. W., M.A., M.D.

Davidson, H. S., M.B.

Young, James, M.D.

*Asst. Gynæcologists :*

Haultain, W. F. T., M.B.

Miller, D. A., M.D.

Fahmy, E. C., M.B.

*Ophthalmology*

*Surgeons :*

Sinclair, A. H. H., M.D.

Traquair, H. M., M.D.

*Asst. Surgeons :*

Chalmers, E. H., M.B.

Graham, C. W., M.B.

*Ear, Nose, Throat*

*Surgeons :*

Fraser, John S., M.B.

Lithgow, J. D., M.B.

*Asst. Surgeons :*

Gardiner, W. T., M.B.

Martin, G. E., M.B.

*Diseases of the Skin*

*Physicians :*

Gardiner, Frederick, M.D.

Low, R. Cranston, M.D.

Asst. Physicians :  
 Aitken, Robert, M.D.  
 Percival, G. H., M.B., Ph.D.

University Extension  
 20 Tutors, including 3 Univ. Profs.  
 and 11 Univ. Lectrs.

ASSOCIATED COLLEGES, in which Univ. courses are provided at Edinburgh.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE. Principal, Ernest Shearer, M.A., B.Sc.

HERIOT-WATT COLLEGE. Principal, J. C. Smail, O.B.E.

NEW COLLEGE (Theology). Principal, Alex. Martin, D.D.

ROYAL (DICK) VETERINARY COLLEGE. Principal, O. C. Bradley, M.D., D.Sc.

## GENERAL INFORMATION

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582. The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838. Newer buildings include the Medical Buildings and the M'Ewan Hall (1888-97), which holds 2600 and has a great electric organ; and "The King's Buildings" (1920-24) for Chemistry and other Science Departments. The Medical School of this Univ. has been famous for many generations; specially ample provision exists also for instruction and research in Theology (post-grad. school instituted 1919), Agric., For., Engin., Mining, and Vet. Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

LIBRARY, founded in 1580, 350,000 vols., 8000 MSS., includes special collections—Shakespearean, Sanskrit, Celtic, Persian, and Arabic MSS., Economics (Hodgson), Math. tables by E. Sang, transactions of Engin. Societies in Great Britain and America, the Laing Charters (A.D. 854-1837), the Laing manuscripts, the Abercromby collection of 2500 vols. on archæology, ethnology, etc.; the Blackie collection of modern Greek books, the Bruce collection of books on oceanographical subjects, the Cameron collection of Celtic literature. MUSEUMS: Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool. (Waterhouse collection of Coleoptera), Anat. (founded with the Monro collection in 1800; numerous specimens of Cetacea and human crania), Physiol., Mat. Med. (notable collections of medicinal and food substances, including those of Duncan and Christison), Forensic Med., Practice of Physic, Surg., Obst. (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the *Royal Botanic Garden*; the Prof. of Astronomy is Astronomer Royal for Scotland and gives practical courses at the *Royal Observatory*. The LABORATORIES are especially well equipped for research in Anatomy, Anthropology, Bacteriology, Chemistry (the Laboratories at King's Buildings, completed in 1924, have accommodation for about 400 students), Engin. (notably Hydraulics, Strength of Materials, Elec. Engin.), Mat. Med., Path., Physics, Physiol., Psych., Pub. Health (Institute built 1902, costing £21,000). The Univ. has a table at the Millport Marine Station. HOSPITALS: the Royal Infirmary adjoining the Univ. provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., the Royal Mental Hospl., and the Royal Victoria Hospl. for Tuberculosis. Over 50 resident posts in these are given annually to Med. graduates.

FACULTIES. (1) Arts, (2) Science (including Engineering, Mining and Metallurgy, Technical Chemistry, Public Health, Agriculture, Forestry, and Veterinary Science, as well as Pure Science), (3) Divinity, (4) Law, (5) Medicine, (6) Music. Deans: (1) Prof. H. J. C. Grierson (English), (2) Prof. Sir T. Hudson Beare (Engin.), (3) Prof. Curtis (Biblical Criticism), (4) Prof. Mackintosh (Roman Law), (5) Prof. Lorrain Smith (Path.), (6) Prof. Tovey (Music).

DEGREES AND DIPLOMAS (v. Scottish Univs.). A diploma in *Education* is granted on completion of Univ. courses (1 yr.) and passing examns. in Psych., Theory and Hist. of E., and modern E. Systems and Problems. Candidates must have attended a course of Professional training or have had at least 3 yrs.' experience as a teacher, and must have completed a graduation course in Arts. Diplomas are also granted in *Actuarial Mathematics* (2 yrs.), *Geography* (open to graduates or students about to graduate in Arts or Science), *Technical Chemistry* (open to graduates who have taken a degree in Science with Honours in Chemistry), *Engl. Language*, and a Diploma and a Certif. in *Social Study*.

A candidate for the B.Sc. in *Vet. Sc.* must (i.) have passed the Prelim. examn. for degrees in Sc., (ii.) have been engaged in Vet. study for 4 yrs., (iii.) have a registrable qualification, (iv.) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet. Coll., Edin., provides certain of the qualifying courses.

Diplomas in *Pub. Health* (1 yr. course), in *Tropical Med. and Hygiene* (3 mos.), in *Psychiatry* (1 yr.) and in *Radiology* (1 yr.), are open to graduates of the Univ. and registered Med. practitioners.

Candidates for the *Mus.Bac.* must have passed the Prelim. Examn. or its equivalent, and attended a course in this Univ. during a whole winter session. A Mus.B. of 3 yrs.' standing may offer himself for the Mus.D. (which may also be conferred *honoris causa*) as Composer, as Executant, or as Theorist or Historian.

#### RECOGNITION OF INSTITUTIONS AND TEACHERS outside the United Kingdom:

(a) For exemption from one (not the final) year of the course for M.A. or for B.Com. and from attendance on classes in and examn. in two subjects for the Ordinary Degree: the following Univs.—Alb., Dal., McG., Manit., Queen's (Kingston), Tor., Adel., Melb., Syd., N.Z., S. Africa, All., Bom., Calc., Mad., Panj., Paris, Tokyo, Osaka, Sendai, and such other Univs. as the Univ. Court may from time to time approve; graduates of the American institutions listed in Appendix XXVI.

(b) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe.

(c) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad. V. also (f).

(d) For 2 of the 3 yrs.' study for LL.B.: McGill Univ., Madras Law Coll., Law Coll., Trevandrum, Ripon Coll., Calc.

(e) For 3 of the 5 yrs. of Med. study: recognized teachers in Singapore (in Physiol. and Practice of Med.) and Wellington, S. Africa (in Chem.).

(f) For admission of graduates from these instittns. to study for the Ph.D. degree (General Recognition is also granted to them in terms of the various Graduation Ordinances): the following Univs.—Dal., King's Coll. (N.S.), Laval, McG., Manit., Queen's (Ont.), Tor., Adel., Melb., Queensland, Syd., W. Aust., N.Z., Cape Town, S. Africa; all Colleges affiliated to these Univs.; Univs. and Colls. approved by the Asscn. of American Univs.

POST-GRADUATE COURSES in Medicine are held during the Summer and

**Autumn Terms and the Summer Vacation.** Particulars obtainable from the Hon. Sec., P.-G. Courses in Med., Univ. New Buildings, Edinburgh. The Post-graduate School of Theology issues a detailed list of courses. Graduates contemplating research should apply to the Deans.

**SCHOLARSHIPS.** Total annual value over £24,000; for graduates only, £6000. Most are open to colonial and foreign students. The Earl of Moray's Endowment provides about £1200 p.a. for research.

*Travelling* for study or research is encouraged by Dickson Fund (£90 p.a.), Dundas Latin Studies Fund (£45 p.a.), Drummond Mathematical Scholarship (£135 p.a. for 3 yrs.), Maclaren Mathematical Scholarship (£170 for 3 yrs.), Scott Scholarship for Graduates in Arts (£70), M'Cosh Bursaries for Graduates in Medicine (£300).

**FEES** (v. Carnegie Trust). Inclusive tuition fees for LL.B., 42 gs.; B.L., 30 gs.; B.Sc. Engin., 90 gs.; Agr., Ord., 90 gs., Hons., 120 gs.; Mining, 105 gs.; Forestry, 105 gs.; Technical Chemistry, 120 gs.; Pure Sc., 100 gs.; B.D., 33 gs.; M.B., Ch.B., including Hospl. Fees, 205 gs. Combined M.A. and B.Sc. in Pure Sc., 130 gs.; M.A. and B.Sc. in Agr. or Engin., M.A. and B.Com. or LL.B., 70 gs.; M.A. and B.L., 65 gs.; B.Sc. in Agr. and in For., 135 gs. Graduation examns.: M.A., 7½ gs.; B.D., 7½ gs.; LL.B., 9 gs.; B.L., 7½ gs.; Mus.B., 15 gs.; Mus.D., 15 gs.; Ph.D., 10 gs.; B.Sc., 9 gs.; D.Sc., 15 gs.; M.B., 33 gs.; M.D., 20 gs.; Ch.M., 20 gs.

**HALLS OF RESIDENCE, ETC.** For men: Cowan House, George Square; accommodation for about 100 students. Terms, £17: 10s. to £23 per term; University Hall on a self-governing basis (information from Messrs. Whitson and Methuen, 21 Rutland Street), Board and lodging about £2: 12: 6 a week. For women: East Suffolk Rd., Craigmillar Park (Warden), £50 for the three terms; Masson Hall, 31 and 32 George Square (Warden); and Muir Hall, 12 George Square (Warden), 33s. 6d. to 47s. 6d. Six months' notice generally necessary.

There is a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd., and Dundee.

Indian Students' Adviser: Maj. J. E. Mackenzie, D.Sc.

**UNIV. EXTENSION, ETC.** The Univ. is now represented on the Advisory Committees for the management of the Tutorial Classes for adults instituted by the Edin. Educational Authority, in co-operation with the Edinburgh W.E.A. Summer Classes (4 weeks) for Teachers are held during vacation, the lecturers being drawn mainly from the Univ. staff. Certificates gained at the courses qualify for endorsement on teachers' certificates.

**OFFICIAL PUBLICATIONS.** The *Calendar* (Aug.), 5s.; the *Prelim. and Degree Examn. Pprs.* (May and July), 5d. to 2s. a set (James Thin, 55 South Bridge). The *Students' Handbook* issued by the Students' Representative Council. *Facilities for advanced Study and Research* free on application.

**HISTORIES OF THE UNIV.:** Bower, Alexr., chiefly compiled from original papers and records, never before published, 3 vols., Edin., 1817-30; Dalzel, Andrew (ed. by D. Laing), with a Memoir of the Author (by C. Innes), 2 vols., Edin., 1862; Grant, Sir Alexr., The Story of the Univ. during its first 300 years, 2 vols., London, 1884.

## THE YEAR 1928-29

**BENEFACTIONS.** £20,000 from Sir William Dunn's Trustees, and £35,000 from the Rockefeller Foundation for reconstruction of the Medical Buildings.

£50,000 from Sir Alexander Grant for a new building for the Geology Dept., also £100 for 5 years to the Dept. of Med. £20,000 from Dr. Thomas Cowan, Endowment for Cowan House (Men's Residence), also £5000, Research Fund in the Dept. of Surgery. £10,000 from the Rockefeller Foundation to the Dept. of Surgery. £5000 from Sir Leybourne Davidson for a Research Fellowship in Bacteriology. £1000 from Lord Beaverbrook to Fac. of Medicine. £1000 from Sir John R. Findlay for a new building for Geology Dept. £500 from an anonymous donor, per Dr. Murray Lyon, for the endowment of the Dept. of Therapeutics. £200 for Prizes, and Specimens and Slides from Dr. R. Stewart MacDougall to the Dept. of Agric. Zoology. To the Animal Breeding Research Dept.: £1200 from Mr. T. B. Macaulay, Models of Clydesdale Horses from Sir John Gilmour, Bart., Plaster Cast of Clydesdale Horse from Mrs. Howie, Hackney Stud Books from Mr. R. C. Marshall, Herd Books from the English Jersey Cattle Society, and the Aberdeen Angus Cattle Society, two Bronze Models of Aberdeen Angus and Sussex bulls from Messrs. Liebig's Extract of Meat Co., Ltd., Angora rabbits from Mr. A. D. Carmichael. Studentship of £150 in Tech. Chemistry from the Distillers Company. Bequest of £1000 by the late Viscount Haldane of Cloan, to the Officers' Training Corps and Honours Philosophy Library. Gifts from various donors of maps, books, slides, specimens, and equipment.

**RECENT DEVELOPMENTS.** New Zoology Dept. at King's Buildings, West Mains Road, opened by H.R.H. Prince George. New Mining Labs. of the Univ. and of the Heriot-Watt Coll. opened by Viscount Chelmsford. Plans authorized for new buildings for Geol. and Engin. at West Mains Road. An Animal House for the Animal Breeding Res. Dept. authorized, cost £1396. A Scheme of Reconstruction of the Med. Buildings undertaken, the cost met mainly by the Dunn Trustees and the Rockefeller Foundation. The O.T.C. granted their Headquarters free of rent, rates, and taxes. The Women's Union granted the use of house and ground for extension free of charge. A site granted to the Committee of the Univ. Settlement for a temporary building. An Agreement for Clinical Teaching signed by the Univ. Court and the Managers of the Royal Infirmary. An Imperial Bureau of Animal Genetics established at the request of the Executive Council for Imperial Agricultural Bureaux. Facilities given for Anatomical Demonstrations to students of Dunfermline Coll. of Hygiene. A Diploma in Engl. Lang. and an Hons. Group in Geog. for M.A. instituted. The Prof. of Public Health granted permission to arrange a series of public evening lectures on Physiol. and Hygiene. A Lectureship in Helminthol. established, and Dr. Thomas W. M. Cameron, London School of Hyg. and Trop. Med., appointed. Schemes for the modification of certain Endowments of the Univ. submitted to the Commissioners under the Educational Endowments (Scotland) Act, 1928. The acquisition of a site of eight acres, adjoining King's Buildings, for a women students' residence (Masson Hall) authorized.

**NEW ORDINANCES.** (1) Raising fee for matricn. to £2:12:6 to form a Physical Welfare Fund for students. (2) Revising the Regns. for Degrees in Science, in Mining, and Metallurgy. (3) Revising Regns. as to addition to membership of Faculties, etc.

**VISIT.** Under the auspices of the Sir George Watson Chair of American Hist., Lit., and Institutions, Dr. John Finley, Associate Editor of the *New York Times*, delivered six lectures.

**THE EDINBURGH W.E.A.** Enrolments, 1140.

**RESIGNATIONS AND RETIREMENT.** Principal Sir Alfred Ewing; Dr. R. Stewart MacDougall, Reader and Steven Lectr. in Agric. Zool. and For. Zool.;

R. L. Gwilt, Lectr. in Actuar. Maths. ; Dr. O. Schlapp, Prof. of German, on the age limit.

DEATHS. The Hon. Lord Constable, Rector's Assessor on Univ. Court. Prof. A. W. Mair (Greek). Gordon Hislop (Lectr. in Engl.).

HONORARY DEGREES. D.D.—The Rev. Arthur John Gossip, M.A., Prof. in United Free Church Coll., Glasgow ; the Rev. Donald Lamont, M.A. ; the Rev. Patrick Johnston MacLagan, M.A., D.Phil., Moderator Designate of the Presbyterian Ch. of England ; the Rev. James Cromarty Smith, M.A., B.D. ; Albert Schweitzer, D.Theol., D.Phil., D.Med., Medical Missionary in West Africa (*in absentia*). LL.D.—H.R.H. Prince George ; the Rt. Hon. the Viscount Chelmsford, G.C.S.I., G.C.M.G., G.C.I.E., G.B.E. ; John Brown Clark, M.A. ; Edwin Stephen Goodrich, M.A., D.Sc., F.R.S., Linacre Prof. of Zool. and Comp. Anat., Univ. of Oxford ; Archibald Vivian Hill, O.B.E., M.A., Sc.D., F.R.S., Foulerton Research Prof., Royal Society, and Hon. Prof., Univ. Coll., Lond. ; Charles Edward Inglis, O.B.E., M.Inst.C.E., Prof. of Mechanism and Applied Mechs., Univ. of Camb. ; Arthur Pillans Laurie, M.A., D.Sc., F.R.S.E., formerly Principal of Heriot-Watt Coll. ; the Rt. Rev. Alexander Martin, D.D., Principal of New Coll. ; Ernest de Selincourt, M.A., D.Litt., F.B.A., Prof. of Engl. Lang. and Lit., Univ. of Birmingham ; the Rt. Hon. Sir Alexander Stevenson, Lord Provost of the City of Edinburgh ; the Rt. Hon. Lord Thackerston ; Sybil Thorndike (Mrs. L. T. Casson) ; Sir James Walker, D.Sc., Ph.D., F.R.S., Prof. Emer. of Chemistry ; the Very Rev. John White, D.D. ; the Rt. Hon. Lord Woolavington of Lavington (*in absentia*). D.Mus.—Albert Schweitzer, D.Theol., D.Phil., D.Med (*in absentia*).

STUDENTS. Full-time: total, 3616, including 114 graduates. Part-time: total, 650, including 97 graduates.

DEGREES. D.Litt., 4 ; D.Sc., 10 ; M.D., 39 ; Ch.M., 0 ; Mus.Doc., 1 ; Ph.D. Divinity, 7 ; Ph.D. Law, 1 ; Ph.D. Arts, 9 ; Ph.D. Science, 23 ; B.D., 5 ; B.Ed., 6 ; LL.B., 16 ; B.L., 18 ; M.B., Ch.B., 120 ; M.A. Hons., 98 ; M.A. Ord., 237 ; B.Com., 34 ; B.Sc. Pure Sc. Hons. 35, Ord. 3 ; B.Sc. Engin. Hons. 19, Ord. 29 ; B.Sc. Mining, 7 ; B.Sc. Tech. Chem., 4 ; B.Sc. Agric. Hons. 3, Ord. 11 ; B.Sc. Forestry, 15 ; B.Sc. Veterinary Science, 2 ; Mus.B., 5. DIPLOMAS: Education, 37 ; Geography, 9 ; Social Study, 7, Cert. do., 6 ; Actuarial Maths., 2 ; Public Health, 13 ; Trop. Med. and Hygiene, 4 ; Psychiatry, 5 ; Radiology, 5 ; Techn. Chem., 1.

## UNIVERSITY OF GLASGOW

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VICE-CHANCELLOR AND PRINCIPAL—ROBERT S. RAIT, C.B.E., LL.D.

RECTOR—The Right Hon. STANLEY BALDWIN, M.P. (elected 1928).

DEAN OF FACULTIES—Emeritus Prof. F. O. BOWER, Sc.D., D.Sc., LL.D.,  
F.R.S. For Dean of each Faculty, see "General Information."

SECRETARY TO THE UNIV. COURT—A. E. CLAPPERTON, B.L., LL.D.

CLERK OF SENATE—The Very Rev. Prof. G. MILLIGAN, D.D., D.C.L.

REGISTRAR—ROBT. BROUGH.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—W. R.  
CUNNINGHAM, M.A.

CLERK OF THE GENERAL COUNCIL—J. J. CRAIK HENDERSON, B.L.

### QUEEN MARGARET COLLEGE

Mistress—Miss F. H. MELVILLE, M.A., B.D., LL.D.

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THE RECTOR, *ex officio*.

THE PRINCIPAL, *ex officio*.

THE LORD PROVOST OF GLASGOW,  
*ex officio*.

The Right Hon. LORD MACLAY,  
LL.D.

Sir HENRY MECHAN, LL.D.

J. BRUCE MURRAY, LL.D.

R. A. DUFF, M.A., D.Phil.

D. MACGILLIVRAY, M.A., LL.D.

J. F. FERGUS, M.A., M.D.

D. BAIRD SMITH, C.B.E., LL.D.

Prof. W. M. GLOAG, K.C., LL.D.

Prof. W. MACNEILE DIXON,  
Litt.D., LL.D.

Prof. G. G. HENDERSON, M.A.,  
D.Sc., LL.D., F.R.S.

Prof. E. P. CATHCART, C.B.E.,  
M.D., D.Sc., LL.D., F.R.S.

### PROFESSORS, LECTURERS, ETC.

#### *Accountancy*

Loudon, J., M.A., C.A. Prof.

Davidson, W. L., C.A. Asst.

#### *Anatomy*

Bryce, T. H., M.A., M.D. Edin.,  
F.R.S. Reg. Prof.

MacLaren, Norman, Ph.D. (Em-  
bryology) Lectr.

Nicol, T., M.B. (Regional A.) „

Henderson, E. E., M.B. Lectr.

Patrick, Wm., M.B., Ch.B. Demr.

Jarvie, J., B.Sc., M.B. Demr.

Wyburn, G. M., M.B. Demr.

Hutchison, R. G., M.B. Demr.

Montgomery, J. W., M.B. Demr.  
1 part-time Demr.

*Arabic*

Robson, J., M.A. Lectr.

*Astronomy*

Becker, L., Ph.D. Bonn. Reg. Prof.

Connell, J., M.A. Lectr.

Ross, John J., M.A. Demr.

*Botany*

Drummond, J. M. F., M.A. Camb.,

F.L.S. Reg. Prof.

Lecturers:

Williams, S., M.Sc. Manc., Ph.D.

Thomson, J., M.A., B.Sc., Ph.D.

Jones, S. G., D.Sc. Asst.

Case, Isabella M., B.Sc. Asst.

Bond, G., B.Sc. Asst.

Catcheside, D. G., B.Sc. Asst.

*Celtic* [Lectr.

Calder, G., B.D., D.Litt. Edin.

*Chem.*, v. also *Physiol.*

Henderson, G. G., D.Sc., F.R.S.,

LL.D. St. And. Reg. Prof.

Lecturers:

\*Bolam, H. W., B.Sc. Edin., Ph.D.

Knox, J., D.Sc. Aberd.

(Med. Studs.).

Roberts, J., M.A.

Henderson, A., M.A., B.Sc.

Mair, J. A., B.Sc., Ph.D.

(Anal. Chem.).

Chisholm, D., B.Sc., Ph.D.

M'Culloch, W. P., B.Sc.

Gibson, D. T., M.Sc., Ph.D.

Carnegie Teaching Fellow.

Assistants:

\*Morrison, Jane, M.A.

Lewin, Christina T., B.Sc.

Robertson, J. M., B.Sc., Ph.D.

\*Stewart, Eliz. C., M.A., B.Sc.

Bell, J., B.Sc.

Blair, R. D., B.Sc.

*Chem.*, *Organic* [Gardiner Prof.

Patterson, T. S., D.Sc. Lond. &

Glas., Ph.D. Heid.

Tucker, S. H., M.A. Ox., M.Sc.,

Ph.D. Lond. Lectr.

Buchanan, C., B.Sc., Ph.D. Lectr.

Stevens, T. S., B.Sc., D.Phil. Ox.

Carnegie Teaching Fellow.

Kent, Andrew, M.A., B.Sc. Asst.

Somerville, R., M.A., B.Sc. Asst.

Storrie, F. R., B.Sc. Asst.

Robertson, J., B.Sc. Asst.

1 tempy. Asst.

*Chem.*, *Physical*

Wright, Robert, D.Sc. Belf. Lectr.

Mitchell, Stotherd T. R. S., B.Sc.,

Ph.D.

Carnegie Teaching Fellow.

Thomson, George, B.Sc. Asst.

*Classics*, v. also *Philol.* [Prof.

Davies, G. A., M.A. Camb. (Greek)

Lecturers:

Gomme, A. W., B.A. Camb. (Gk.

and Gk. Hist.).

Kitto, H. D. F., B.A. Ox. (Greek).

Paterson, J., M.A.

Rennie, W., M.A. (Humanity)

Prof.

Lecturers:

Nisbet, R. G., M.A. (Latin)

M'Glynn, P., M.A., D.Litt (Latin).

Austin, R. G., M.A. Ox. (Latin)

*Divinity*, v. also *Hebrew*

Fulton, W., B.Sc., D.D.

Primar. Prof.

Milligan, Very Rev. G., D.D.

Aberd., D.C.L. Durh. (Bibl.

Crit.) Reg. Prof.

Main, A., M.A. Glas., B.A. Ox.,

D.Litt., D.D. (Church Hist.)

Reg. Prof.

Smith, Prof. J. A., M.A.

Gifford Lectr. in Nat. Theol.

*Economics*, v. *Pol. & Social Econ.*

*Education* [Lectr.

Boyd, W., M.A., B.Sc., D.Phil.

Inglis, W. B., M.A., Ed.B. Lectr.

*Embryology*, v. *Anat.*

*Engineering*, v. also Naval

Goudie, W. J., D.Sc.  
J. Watt Prof. of Theory  
and Practice of Heat  
Engines.

Small, J., B.Sc. Lectr.  
Geyer, E. W., B.Sc. Lectr.

*Engin., Civil and Mech.*

Cormack, J. D., C.M.G., C.B.E.,  
D.Sc. Reg. Prof.

Brown, R. M., D.Sc., Ph.D. Lectr.  
Keown, J. E., B.Sc. (Drawing and  
Design) Lectr.

Morrison, J. C., B.Sc. Lectr.

Wilson, J., B.Sc. Lectr.

M'Gregor, W., B.Sc. Lectr.

Thom, A., D.Sc., Ph.D.  
Carnegie Teaching Fellow.

Orr, J., B.Sc. Asst.

M'Donald, G. G., B.Sc. Asst.

*Engineering, Electrical*

Howe, G. W. O., D.Sc. Durh. and  
Adel. J. Watt Prof.  
Hague, B., D.Sc. Lond., Ph.D.

Lectr.

Scobie, J., B.Sc. Lectr.

Small, A. J., B.Sc. Lectr.

*Engineering Production*

Sloan, K. M. Lectr.

*English Language and Literature*

Dixon, W. M., Litt.D. Dub., LL.D.  
Aberd. Reg. Prof.

## Lecturers :

Bickersteth, G. L., M.A. Ox.

Girvan, R., M.A. (Eng. Lang.)

\*Alexander, P., M.A.

Sutherland, J. R., M.A. Aber.,  
B.Litt. Ox.

Gray, Margaret M., M.A.

Wright, B. A., B.A. Ox.

May, Maude G., M.A.

*French*

Martin, C. A., Ch. L.H., C.G.,  
O.I.P., M.A. Paris Prof.

## Lecturers :

Pitoy, L. M., B.Sc., L. ès L. Phil.

Pitoy, Mary C., M.A.

Ferguson, Marjorie M., M.A.

Silver, R. C., M.A., L. ès L.

Perroy, E.

Anderson, N. C., M.A. Asst.

*Geography*

Stevens, A., M.A., B.Sc. Lectr.

Wood, H. J., B.Sc. Asst.

Grieve, Eliz. M., B.Sc. Asst.

Talbot, W. J., B.Sc. Asst.

*Geology*

..... Prof.  
Tyrrell, G. W., Ph.D., A.R.C.S.

Lectr.

Neilson, Agnes T., M.A. Lectr.

Weir, J., M.A., Ph.D. Lectr.

Barrett, B. H., M.A., B.Sc.

Carnegie Teaching Fellow.

M'Callien, Wm. J., B.Sc. Lectr.

Currie, Ethel D., B.Sc., Ph.D.

Lectr.

*German*

Smith, H., M.A. St. And., Ph.D.

Marb. William Jacks Prof.

Clark, James M., M.A., Ph.D. Lectr.

Flint, Mary C., M.A. Asst.

Hoops, R., Ph.D. Asst.

*Hebrew and Semitic Langs.*

Stevenson, W. B., D.Litt., D.D.

Edin. Prof.

Harris, E. J., B.D. Asst.

*History*, v. also Div., Law, Pol.

Econ.

Medley, D. J., M.A. Ox. Prof.

Browning, A., M.A. Lectr.

Sayles, G. O., M.A. Lectr.

Lees, Greta C., M.A. Lectr.

Hislop, Ian G., M.A. Asst.

Miller, S. N., M.A. (H. and Antiq.,  
Roman) Lectr.

..... Prof.

## Lecturers :

Pryde, G. S., M.A., Ph.D. St.

And.

Douglas, D. C., B.A. Ox. (Med. H.).

Lees, R. M., M.A. (British H.)

*Humanity*, v. Classics

*Italian* [Stevenson Prof.  
Grillo, Cav. E., K.C.O.I., M.A.,  
Litt.D. Flor., LL.D. Perugia  
MacKinven, A. D., M.A. Lectr.  
Obertello, Alfredo, D.Lit. Asst.

*Law, v. infra*

*Logic and Rhetoric*  
Paton, H. J., M.A. Prof.  
Brown, George, M.A. Lectr.  
Levett, Margaret J., M.A. Lectr.  
Haydock, G. H., M.A., B.Litt. „  
Dickie, J. S., M.A., B.Sc. „  
Cousin, D. R., B.A. Asst.

*Mathematics* [Prof.  
MacRobert, T. M., M.A., D.Sc.

Lecturers :

M'Arthur, N., M.A., B.Sc.  
M'Whan, J., M.A., Ph.D.  
Arthur, W., M.A.  
Hyslop, J., M.A., Ph.D.  
Rankine, Jean C., M.A., B.Sc.  
Robb, R. A., M.A., B.Sc.  
Brown, George, M.A. Asst.  
Thomson, George, M.A. Asst.  
Anderson, A., M.A., B.Sc. Asst.  
Smith, J. H., M.A. Asst.  
Gillespie, R. P., M.A. Asst.

*Medicine and Surgery, v. infra*

*Metallurgy, etc., v. R. Tech.*  
Coll.

*Mining*

Dron, R. W., M.A. Dixon Prof.  
Adam, D., B.Sc. Lectr.

*Naval Archit., including Marine*  
*Engin.*

Hillhouse, P. A., D.Sc.  
John Elder Prof.  
Evans, D. L., B.Sc. Lectr.

*Philology, Comp. (Classical)* . . . .  
Pirie, J. W., M.A. Aberd. Lectr.

*Philosophy, Moral, v. also Logic*  
*and Psychol.* [Prof.  
Bowman, A. A., M.A., Litt.D.  
Phillips, I. W., M.A. Lectr.  
Campbell, C. A., M.A. Lectr.  
Lamont, W. D., M.A. Lectr.

*Philosophy, Natural*  
Jones, E. Taylor, D.Sc.Lond. Prof.  
Houstoun, R. A., D.Sc., Ph.D.  
(Physical Optics) Lectr.  
Cochrane, Charles, M.A., B.Sc.  
Lectr.  
Shearer, J. F., M.A., B.Sc. Lectr.  
M'Farlane, W., M.A., B.Sc. Asst.

*Physics, Applied*  
Gray, J. G., D.Sc. Cargill Prof.  
Allan, G. E., D.Sc. Birm.  
Arnott and Thomson  
Demr. in Expl. Physics  
and Lectr. in Elec.  
Green, G., M.A., D.Sc. Lectr.  
Gray, R. C., M.A., D.Sc. Lectr.  
Younger, A. J., M.A., B.Sc. Lectr.

*Physiology*  
Cathcart, E. P., C.B.E., M.D.,  
D.Sc., LL.D., F.R.S.  
Reg. Prof.  
Watson, A. M., M.A., Ph.D. (His-  
tology) Lectr.  
Wishart, G. M., B.Sc., M.D.  
Grieve Lectr.  
Garry, R. C., M.B.  
Lectr. & Demr.  
Burnett, W. A., B.Sc., M.B. Asst.

*Physiological Chem.*  
Hunter, A., M.A., B.Sc., M.B.  
Edin. Gardiner Prof.  
Wilson, H. E. C., M.B. Asst.

*Polit. Econ.*  
Scott, W. R., Litt.D. Dub., D.Phil.  
St. And. Prof.  
Buyers, J. A., M.A.  
Lectr. (Econ. Hist.).  
Nisbet, J. W., LL.B. Asst.

*Political Philosophy*  
White, Alex. K., M.A. Lectr.  
*Psychology* [Lectr.  
Thouless, R. H., Ph.D., M.A.

*Russian* [Sir William Weir Lectr.  
Brennan, H. G., M.A. Lond.

*Social Economics*  
Cunnison, James, M.A. Lectr.

*Spanish*

Entwistle, W. J., M.A.

Stevenson Prof.

de Lara, Maria V.

Asst.

*Theology*, v. Divinity*Zoology*

Kerr, J. Graham, M.A. Camb.,

F.R.S. Reg. Prof.

Carter, G. S., B.A., Ph.D. Camb.

Lectr.

Jepps, Margaret W., M.A. Lectr.

Staig, R. A., M.A. Lectr.

Chumley, James, M.A. Lectr.

Miller, Agnes E., M.A. Asst.

Parsons, C. W., B.A. Camb. Asst.

Ballantyne, Frances M., M.A.

Asst.

Kerr, T., M.A. Asst.

*Law*

Gloag, W. M., K.C., B.A. Ox.,

LL.D. Edin. Reg. Prof.

*Civil Law* [Lectr.

Muirhead, J. S., B.A. Ox., LL.B.

*Const. Law and Hist.*

Mungo, D. B., LL.B. Lectr.

M'Leish, D. A. S., LL.B. Asst.

*Conveyancing*

Girvan, J., LL.B. Prof.

Kay, A., LL.B. Asst.

*Evidence and Procedure*

Lamond, R., LL.B. Lectr.

*Internat. Law, Public, and In-**ternat. Private Law*

Nicol, R. M., LL.B. Lectr.

*Jurisprudence, Genl.*

M'Intosh, H., LL.B. Lectr.

*Mercantile Law*

..... Prof.

Dickson, D. S., LL.B. Asst.

Medicine (for subjects of first 2  
yrs.—Anat., etc., v. *supra*)*Bacteriology*

Browning, C. H., M.D., D.P.H.,

F.R.S. Gardiner Prof.

Dunlop, E. M., M.B. Lectr.

*Bio-Chemistry*, v. Pathological*Dermatology*

Tomkinson, J. G., M.D.

M'Call Anderson Mem. Lectr.

Smith, J. Ferguson, M.A., M.B.

Lectr.

*Ear and Throat and Nose,**Diseases of*

Young, G., M.B. Lectr.

Harper, James, M.A., M.B. Lectr.

*Electrical Diagnosis and Thera-**peutics* [Lectr.

Riddell, J. R., F.R.F.P.S.G.

MacLean, A. B., M.D. Lectr.

*Eye, Diseases of the*

Ballantyne, A. J., M.D. Lectr.

*Forensic Medicine* [Reg. Prof.

Glaister, J., M.D., D.P.H.

Martin, F. W., M.B. Asst.

*Infancy and Childhood*

Findlay, L., M.D., D.Sc.

Prof. of Med. Pædiatrics.

Fleming, G. B., M.B.E., B.A., M.D.

(Med. Diseases) Lectr.

Graham, Stanley, M.D. Tor. Asst.

MacLennan, A., M.B. (Surgery

and Orthopædics) Lectr.

Macfarlane, W. D., M.B. Asst.

*Materia Medica*, v. also Med.

Clin. [Reg. Prof.

Stockman, R., M.D. Edin.

Campbell, David, M.A., B.Sc.,

M.D. Pollok Lectr.

..... Weir Asst.

Scott, W. H., M.B. Asst.

*Medicine* [Muirhead Prof.

Hunter, W. K., M.D., D.Sc.

Cruickshank, J. N., M.D. Asst.

Mackay, W., M.B. Asst.

*Medicine, Clinical*

Henderson, J., M.D. Lectr.

Cowan, J. M., M.D., D.Sc. Lectr.

Middleton, J. C., M.A., B.Sc., M.B.

Waltonian Lectr. (also

Lectr. in *Mat. Med.*).

Russell, D. W., M.B., C.M. Lectr.

*Medicine, Practice of*

Monro, T. K., M.A., M.D., C.M.  
Reg. Prof.

## Assistants :

Adams, Douglas K., M.A., B.Sc.,  
M.D.

M'Ccluskie, J. A. W., M.B., Ch.B.  
Lendrum, R. G., M.A., M.B., Ch.B.

*Midwifery*

Kerr, J. M. Munro, M.D. Reg. Prof.  
M'Intyre, D., M.D. Asst.  
Hewitt, J., M.B. Asst.

*Obstetrics and Gynæcology*

Hendry, J., M.A., B.Sc., M.B.  
Muirhead Prof.  
Cameron, S. J., M.B. (Clin.) Lectr.  
Shannon, David, M.B.  
" Samaritan " Lectr.  
Baird, D., M.B., D.P.H. Asst.  
Hunter, A. M., M.B. Asst.

*Pathology*

Muir, R., M.A., M.D. Edin.,  
Sc.D., F.R.S. Prof.  
Cappell, D. F., M.B. Lectr.  
M'Callum, G., M.B. Asst.  
Mackey, W. A., M.B. Asst.  
Teacher, J. H., M.A., M.D.  
St. Mungo-Notman Prof.  
Marshall, Alice J., M.B. Lectr.  
Wingate, Helen F., M.B. Asst.

*Pathology of Diseases of Infancy  
and Childhood*

Blacklock, J. W. S., M.B. Lectr.

*Pathological Bio-Chemistry*

## Lecturers :

Telfer, Stephen V., B.Sc., M.B.  
Cuthbertson, D. P., B.Sc., M.B.  
Morris, N., B.Sc., M.D.

*Pediatrics, v. Infancy**Psychiatry (Mental Diseases)*

Henderson, D. K., M.D. Lectr.

MacDonald, J. H., M.B., Ch.B.  
(Psych. Med.)

Mackintosh Lectr.

*Psychological M., v. Psychiatry**Public Health*

Currie, J. R., M.D., D.P.H. Birm.,  
M.A. Edin. and Ox. Prof.  
Macleod, Catherine, M.B., D.P.H.  
Asst.

*Surgery*

[Reg. Prof.

Young, Archibald, B.Sc., M.B.  
Hutton, A. J., M.B. Asst.  
Robertson, J. G. M'Gregor, M.B.  
Asst.  
Riddell, W. J. B., M.B. Asst.  
Paterson, Peter, M.B., C.M.  
St. Mungo Prof.  
Burton, J. A. G., M.B., D.P.H.  
St. Mungo Asst.  
Mowat, G. T., M.B. Asst.

*Surgery, Clinical*

## Lecturers :

Edington, G. H., M.D., D.Sc.  
Patrick, J., M.A., M.B.  
Macewen, J. A. C., B.Sc., M.B.  
Young, Roy F., M.B.  
M'Intyre, Milne, M.B.  
Renton, J. M., M.B.  
Duff, Donald, F.R.C.S. Ed.  
Taylor, J., F.R.C.S. Ed.  
Tennent, R., M.B.

*Tuberculosis, Clinical*

Crockett, J., M.D. Edin., D.P.H.  
Lectr.  
Wilson, J. A., M.B. Lectr.

*Venereal Diseases*

Watson, D., M.B., C.M. Lectr.

## University Extension

Stevenson Lectr. in Citizenship :  
Burns, C. Delisle, M.A., D.Lit.  
Joint Secy. for the Univ. to the  
Glasgow Univ. Extra-mural  
Education Committee :  
Stewart, D., C.I.E.

ASSOCIATED COLLEGES, in which University courses are provided at Glasgow.

ROYAL TECHNICAL COLLEGE.

WEST OF SCOTLAND AGRICULTURAL COLLEGE.

## GENERAL INFORMATION

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI. of Scotland in 1577. For early history, see *Year Book*, 1929.

The LIBRARY, founded in the 15th century, contains 255,000 vols., including 300 books printed before A.D. 1500. Among its important collections are the Ewing, distinguished for the value and variety of its Bibles; the Hamilton, rich in philosophical works; and the Ferguson, containing rare books on the history of chemistry. The HUNTERIAN MUSEUM, founded in 1783, contains most valuable MSS. and early printed books and pictures and important collections of coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious LABORATORIES have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health, and Zoology. There are BOTANICAL GARDENS and an OBSERVATORY. As Glasgow stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general HOSPITALS are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. (1) Arts, (2) Science, (3) Medicine, (4) Law, (5) Divinity, (6) Engineering. Depts. of Applied Science—Engineering (Civ., Elec., Mech. Mining, Naval Archit., Chem.), Applied Chem., Agric., Architecture, Public Health, Pharmacy. Deans: (1) Profs. Bowman (Mor. Phil.), (2) Drummond (Bot.), (3) Currie (Public Health), (4) Glaister (Forensic Med.), (5) Main (Eccl. Hist.), (6) Cormack (Civ. Eng. and Mech.).

DEGREES. Applications by Overseas students for remission of part of the class attendance for B.Sc. in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr. course, for graduates (the first yr. of the Ed.B. course); D.P.H. (1 yr. course) for legally qualified med. practitioners. *Certificates* of Proficiency in Engineering Science and in Mining Engin., 3 yrs.' courses, of which first yr. may be taken in Roy. Tech. Coll.; no prelim. examn.

*M.A. with special reference to Citizenship.* The curriculum recommended for this is—1st yr., English and another language; 2nd yr., a Science and History; 3rd yr., Ethics, Individual and Social Life, and Political Economy.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation includes several resident outside the United Kingdom, namely, in Cape Town (in Nat. Philos., Chem., Bot., Zool.), Grahamstown (Physics, Chem., Bot., Zool.), Johannesburg (Zool. and Chem.), and Stellenbosch (Bot., Chem., Physics).

For detailed information regarding POST-GRADUATE study and research in any Faculty application should be made to the Dean; v. also p. 280. A Post-graduate Medical Assocn. organizes demonstrations for Med. Practitioners; fee for series, Nov. to May, 3 gs.; programme obtainable from the Secy., P.-G. Med. Assocn., Dr. James Carslaw, 9 Woodside Terrace, Glasgow, C.3.

CLASS FEES (v. Carnegie Trust). M.A. (Hons.), 60 gs.; LL.B., 40 gs.; B.L., 30 gs.; M.B., Ch.B., about £250 for 5 yrs. Combined M.A. and B.Sc., 112½ gs.

**SCHOLARSHIPS FOR GRADUATES :** about 76 of from £30 to £280 p.a., most of them open only to graduates of Glas. (For undergraduates there are 480, varying in value from £10 to £50 or more p.a., chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers.) There are also 5 Foundations for res. scholarships and studentships; v. also p. 280.

**Travelling** for study or research is encouraged by: Bryce Mathematical Fellowship (£280 p.a. for 4 yrs.), Faulds Fellowship (£200), J. R. K. Law Scholarship (£100 p.a. for 2 yrs.) for Applied Science tenable at an approved *Overseas University* or other scientific institution in *Canada, U.S.A., or France.*

**RESIDENCE.** Two Halls of Residence for men—the MacLay Hall and the MacBrayne Hall; and two for women—Queen Margaret Hall and the Robertson Hall. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ., for from 35s. to 50s. per week. A few students' hostels or settlements, of limited accommodation, where the charges are lower, are run by private committees or bodies of students and graduates.

A **STUDENT WELFARE COMMITTEE** has been formed to raise funds for the provision of Hostels, increased Union accommodation, and the completion of the Athletic Ground. Grants have been received from the Univ. Grants Committee and the Carnegie Trust, and many donations have been received from private benefactors and other sources. In all c. £85,000 has been raised.

**UNIVERSITY EXTENSION.** An Extra-mural Education Committee, equally representative of the Univ. and working-class organizations, is prepared to supply classes, short courses, and single lectures to groups of students in Glasgow and the West of Scotland, so far as its resources will permit; a compendium of classes and lectures for the session is obtainable from the Organizing Secy., W.E.A., 177 Hill Street, Garnethill, Glasgow, C.3. Fortnightly and occasional free public lectures by profs. and others during the winter session.

**PUBLICATIONS.** *Calendar*; *Glasgow Univ. Magazine*, weekly during winter session; *Examn. Papers*, Prelim. and Degree, 6d. per set; *Annual Handbook* for matriculated students; *Handbook* for Overseas students and graduates; *History of the University of Glasgow* (Coutts); *Roll of Graduates* (1726-1896) (Addison); *Matriculation Albums* (Addison).

## THE YEAR 1928-29

**BENEFACTIONS.** Dr. J. F. Fergus, 100 gs. for prize in Clin. Med; Fac. of Procurators, 3 further prizes in Law; Mr. John Brown, endowment for Jas. Brown Class Library (German); £1000 from Lord Beaverbrook *per* the late Prime Minister, for an object connected with the Med. Faculty. St. Aloysius Coll., Glasgow—two Bursaries, annual value £15; the late Mr. R. Duncan, £50 for the advancement of Engin.; the late Mrs. M. I. Breen, £3000 to found "The Anthony Inglis" Bursary in Engin.; an anonymous donor, £20,000 for 2 or more schol'ps. in memory of Dr. David and Mr. Stuart Foulis.

**HONORARY DEGREES.** *D.D.*—A. Andrew, W. L. Levack, D. A. MacDonald, J. L. Mortow, F. J. Powicke, C. E. Rowen, T. Yates. *LL.D.*—Sir J. T. Cargill, Prof. H. S. Carslaw, Mme. Curie, Rt. Hon. The Earl of Elgin, E. J. Gwynn, C. O. Hawthorne, F. Kreisler, Rt. Hon. Lord Lugard, Sir D. Mason, Prof. R. B. Merriman, J. C. Scott.

**DEATHS.** The Rt. Hon. The Earl of Rosebery and Midlothian, Chancellor of the University; Sir Hector C. Cameron, Dean of Faculties; Prof. T. G. Wright; Mr. C. F. Smith, Lectr. in Econ. Hist.

RESIGNATIONS. Principal Sir Donald MacAlister, Bt., K.C.B.; Prof. J. W. Gregory, F.R.S.; Dr. J. Glaister, Jr., Lectr. in For. Med.; Dr. Lilian M. Dickson, Lectr. in Anatomy.

REGULATIONS. Honours Groups (M.A.) have been instituted in (a) Philos. and Psychol., (b) Philos. and Econ. Geography has been made a double course subject for M.A.

STUDENTS. Full-time: total, 5496 (men, 3803; women, 1693).

DEGREES. M.A., 562; B.Sc., 194; M.B., Ch.B., 117; B.L., 19; LL.B., 18; Ed.B., 2; B.D., 2; Ph.D., 19; D.Litt., 3; M.D., 17; D.Sc., 2.

## THE ROYAL TECHNICAL COLLEGE, GLASGOW

[Affiliated to the University of Glasgow.]

*Chairman of the Board of Governors*—JAMES MACKENZIE, LL.D.

*Director*—H. F. STOCKDALE, LL.D.

*Tutor and Librarian*—W. G. BURRELL, M.A.

*Treasurer*—J. S. CROFT.

*Secretary*—A. MACKAY, F.C.I.S.

### PROFESSORS, LECTURERS, ETC.

*Architecture and Building*  
Hughes, T. H., F.R.I.B.A., F.S.I.,  
A.R.C.A.

Prof. and Dir. of Arch.  
Studies.

Brown, T., A.I.Struct.E. Lectr.

Smith, Wm. J., A.R.I.B.A., „

Revel, J. D., A.R.C.A., R.P.S.

Hon. Lectr. (Interior  
Decoration).

*Bacteriology and Botany*  
Ellis, D., D.Sc. Lond., Ph.D. Marb.  
Prof. (Bact.) & Lect.  
(Bot.).

Lloyd, Miss B., M.Sc. Wales, Ph.D.

Lectr. (Bact.) and Asst.

Lectr. (Bot.).

Leitch, J. M., B.Sc.

Asst. Lectr. (Bact.).

*Chemistry, Technical*  
Gray, T., D.Sc., LL.D., Ph.D.  
Jena

Young Prof. and Dir. of  
the Sch. of Chem.

Cruikshanks, G. S., Ph.D. Leip.

Lectr.

Buchanan, Walter J., A.R.T.C.

Demr.

Heriot, T. H. P., F.I.C.

Lectr. (Sugar Manuf.).

*Chem., Inorg. and Analyt.*  
Caven, R. M., D.Sc. Lond. Prof.

Lecturers:

Sutherland, Maggie M. J., D.Sc.

Cranston, J. A., D.Sc., A.I.C.

(Physical Chem.).

Duncan, J. G., F.I.C., A.R.T.C.

Gordon, P. F., Ph.D., F.I.C.

Crawford, A. B., Ph.D., B.Sc.,  
A.R.T.C., A.I.C.

Demrs. :

Anderson, H. G. A., B.Sc.

M'Intyre, R., B.Sc.

Biggar, D. G., A.R.T.C.

Stratton, Jean M., B.Sc.

### *Chemistry, Organic*

Wilson, F. J., D.Sc. Edin., Ph.D.  
Leip. Prof.

Cumming, W. M., D.Sc. Lectr.

Hopper, I. V., Ph.D., B.Sc. Lond.,  
A.R.C.S.I. Lectr.

### *Dyeing, Bleaching, etc.*

Steven, A. B., B.Sc. Lond. Lectr.

### *Engineering, Civil*

Moncur, G., B.Sc. Edin.,  
M.Amer.S.C.E. Prof.

Hunter, W., B.Sc. Lond.,  
A.R.T.C. Lectr.

Thomson, G., M.A. Edin. (San.  
Eng.) Lectr.

### *Engineering, Electrical*

Smith, S. Parker, D.Sc. Durh.  
Prof.

Meade, F. E., M.I.E.E. Lectr.

Asst. Lectrs. and Demrs. :

Farrell, J. F. E., B.Sc.

Shearer, G., B.Sc.

Say, M. G., Ph.D., M.Sc. Lond.

MacElwee, N. M., B.Sc., A.R.T.C.

Cowan, J. A., A.R.T.C.

Lawson, R., Dipl. R.T.C.

### *Engineering, Mechanical*

Mellanby, A. L., D.Sc. Durh.,  
M.Sc. McG. Prof.

Kerr, Wm., Ph.D., A.R.T.C.  
Assoc. Prof.

Sinclair, J. H., M.Sc. Vict., B.Eng.  
Liv. Lectr.

Smith, J., B.Sc. Lectr.

Caldwell, P. S., A.R.T.C. Lectr.

Ramsay, J., B.Sc. Lond. Lectr.

Sneeden, O., B.Sc. Lectr.

Ferguson, W., B.Sc. Lond. Lectr.

Asst. Lectrs. and Demrs. :

Milnes, W. A., B.Sc. Lond.

Garrick, J. A., B.Sc.

Russell, R., B.Sc.

Scott, Alex. W., B.Sc., A.R.T.C.

M'Broom, H. L., B.Sc., A.R.T.C.

Russell, R.

Shannon, J. F., A.R.T.C.

Moir, C. M., B.Sc. Lond.

Third, A. D., B.Sc., Ph.D.

### *Engineering, Mining*

Burns, D., M.I.Min.E. Prof.

Stevenson, J., B.Sc. Lectr.

Miller, Wm., B.Sc. Asst. Lectr.

Hibberd, G., A.R.T.C. Demr.

### *Geology, Economic*

Edwards, E. J., M.Sc. Manc. and  
Leeds Lectr.

### *Mathematics*

Miller, J., M.A., D.Sc. Prof.

Paul, J., M.A., B.Sc. Lectr.

Geddes, S., M.A., B.Sc. Lectr.

### *Metallurgy*

Andrew, J. H., D.Sc. Manc. Prof.

Higgins, R., Ph.D., B.Sc., A.R.T.C.

Lectr.

Macdougall, A. J. Demr.

### *Metallurgical Chemistry* [Lectr.

Hay, R., Ph.D., B.Sc., A.I.C.

### *Natural Philosophy*

Muir, J., D.Sc., M.A. Camb.

Freeland Prof.

M'Quistan, D. B., M.A., B.Sc.

Assoc. Prof.

Rankin, J. S., B.Sc., A.R.T.C.

Lectr.

Asst. Lectrs. and Demrs. :

Symon, F. J., B.Sc.

Macaulay, J. M., B.Sc., Ph.D.,  
A.R.T.C.

Strachan, J. G., M.A.

Nicol, N. L., M.A., B.Sc.

### *Naval Architecture*

Gray, W. M., B.Sc. Lectr.

<i>Pharmacy and Pharmacog.</i>		Maxwell, N. V., Ph.C.	Demr.
Todd, J. P., Ph.C.	Lectr.	<i>Sugar Manufacture</i> , v. Chem.	
Schorn, E. J., A.I.C., Ph.C.		<i>Textile Manufacture</i>	
	Asst. Lectr.	Watson, W., F.T.I.	Lectr.
Coutts, Jas., Ph.C.	Demr.	2 Asst. Lectrs.	

## GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861) were amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb. 1912 to the Royal Technical College. The College was affiliated to the Univ. of Glasgow in March 1913.

The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Applied Science and for the Diploma of the College. Courses in the following qualify for the Diploma only: Building, Naval Architecture, Textile Manufacture. There are also Departments of Navign. and Bakery, as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 (in Chem. and Metall., 4) yrs.; for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required. The evening lecturers are not included in the above lists; some of their work is, however, of university and even post-graduate standard. Much research work, for the prosecution of which a development fund of over £70,000 has been raised, is carried on at the College. The library includes the Euing musical collection and the James Young collection of early alchemical, metallurgical, and chemical books.

The Glasgow School of Architecture is maintained by the College and the Glasgow School of Art working in co-operation through a Joint Committee under whose authority its Diplomas (5 yrs.' course) are issued.

The College has an athletic ground, and within the College buildings a well-equipped gymnasium.

FEES for tuition: diploma, 25 gs. p.a.; degree, 90 gs. for course.

PUBLICATIONS. *Calendar*; *Annual Report*; *Research Journal*; *Metallurgical Club Journal*.

## THE YEAR 1928-29

RESIGNATION. E. Arthur, Demr. in Pharmacy.

RESEARCH JOURNAL. The fourth number was issued, containing eighteen papers in Natural Philosophy, Chemistry, Metallurgy, Mechanical Engineering, Electrical Engineering, Bacteriology and Architecture.

UNIVERSITY EXTENSION. 2016 part-time students of 21 years of age or over were in organized classes. 499 tickets were issued for the courses in Astronomy.

STUDENTS. Full-time: preparing for a first Degree or Diploma (excluding 34 attending major portion of time at Glasgow Univ., 365; undertaking advanced work, 15. Part-time: preparing for a first Degree or Diploma, 513; undertaking advanced work, 19; occasional students, 1836; taking courses not of a Univ. standard, 1124.

DEGREES OBTAINED. Ph.D., 9; B.Sc. in Applied Science, 41; B.Sc. Lond., 3.

# UNIVERSITY OF ST. ANDREWS

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—The Rt. Hon. STANLEY BALDWIN, M.P., LL.D.

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE UNITED COLLEGE—Sir JAMES COLQUHOUN IRVINE, C.B.E., Ph.D., D.Sc., LL.D. Glas., Sc.D., F.R.S.

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—Sir WILFRED GRENFELL, C.M.G., M.D. Ox., LL.D.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY AND REGISTRAR—ANDREW BENNETT.

LIBRARIAN—GEORGE H. BUSHNELL.

PRINCIPAL OF ST. MARY'S COLLEGE—Very Rev. G. GALLOWAY, M.A., D.Phil., D.D.

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—J. Y. MACKAY, M.D., LL.D.

ADVISERS OF STUDENTS AT ST. ANDREWS: IN ARTS—Prof. WEBSTER ; IN SCIENCE—Prof. HERRING ; IN MEDICINE—Prof. WATERSTON.

AT DUNDEE: IN ARTS AND SCIENCE—Prof. STEGGALL ; IN MEDICINE—Prof. CHARTERIS.

## UNIVERSITY COURT

PRESIDENT—THE RECTOR.

THE PRINCIPAL, *ex officio*.

THE PRINCIPALS OF ST. MARY'S COLLEGE and UNIVERSITY COLLEGE, DUNDEE, *ex officio*.

THE PROVOST OF ST. ANDREWS and THE LORD PROVOST OF DUNDEE, *ex officio*.

JAMES YOUNGER, LL.D.

WILLIAM LOW, O.B.E., LL.D.

A. MACGILLIVRAY, C.M., M.D., D.Sc.

J. M. DAWSON, M.A.

G. LAWSON, M.A.

E. E. MORRISON, M.A., LL.D.

Prof. FULTON.

Prof. WATERSTON.

Prof. MORRISON.

SECY.—ANDREW BENNETT.

## PROFESSORS, LECTURERS, ETC.

### *Anatomy*

Waterston, D., M.A., M.D., C.M.  
Edin. Bute Prof.

Dow, D. R., M.B., Ch.B., M.D.,  
D.P.H. Prof.\*

Kirkpatrick, H. J. Rodway, M.B.,  
Ch.B., D.P.H.

Lectr. & Asst. (Regional A.).

Taylor, John, M.D., Ch.M.

Lectr. (Regional A.) & Asst.\*

Skae, F. M. T., M.D., C.M. Asst.\*

\* At Dundee.

*Archæology*, v. History*Biology*, v. Nat. Hist.*Botany*

- [Prof.  
Robertson, R. A., M.A., B.Sc.  
Smith, Edith P., B.A., Ph.D.  
Edin. Lectr.\*  
Kean, C. Isobel, B.Sc. Asst.

*Chemistry*

- Read, J., M.A. Camb., B.Sc. Lond.,  
Ph.D. Zür. (Dir. of Chem. Res.  
Lab.) Prof.  
Steele, Ettie S., M.A., B.Sc., Ph.D.  
Lectr. & Asst.  
M'Kenzie, Alex., M.A., D.Sc.,  
Ph.D. Berl., F.R.S. Prof.\*  
Ross, J. D. McB., M.B.E., M.A.,  
D.Sc. Edin. Lectr. & Asst.\*  
Robertson, G. J., M.A., B.Sc.,  
Ph.D. Lectr.  
Macdonald, J. Y., B.A. Lectr.  
Roger, R., B.Sc., Ph.D. Lectr.\*  
Smith, Isobel A., M.A., B.Sc.,  
Ph.D. Asst.\*  
Storey, R. A., B.Sc. Asst.

*Classics*

- Rose, H. J., M.A. Ox. (Gk.) Prof.  
Tate, J., M.A. (Gk.) Lectr. & Asst.  
Dall, Mrs. A., M.A., Ph.D. Asst.  
Lindsay, W. M., M.A. Ox., LL.D.,  
Litt.D., Ph.D., F.B.A. (Hu-  
manity) Prof.  
Craig, J. D., M.A. (Latin)  
Lectr. & Asst.  
Mitford, T. B., M.A. (Latin) Lectr.  
Lorimer, W. L., M.A. (Latin)  
Reader.\*

*Divinity*

- Galloway, G., M.A., D.Phil., D.D.  
Edin. Primarius Prof.  
Duncan, G. S., O.B.E., M.A., B.D.,  
B.A. (Bibl. Crit.) Prof.  
Baxter, J. H., M.A., B.D. (Ch.  
Hist.) Prof.  
The Right Rev. Bishop Charles  
Gore Gifford Lectr.

*Education*

- [Bell Prof.  
M'Clelland, W. W., M.A., B.Sc.,  
B.Ed. (Dir. of Studies at the  
Provincial Training College)  
Snodgrass, Neil S., M.A. (Admin.  
of Schs., etc.) Lectr.

*Engineering, Civ. and Mech.,  
and Drawing*

- Fulton, A. R., D.Sc. Prof.\*  
Hay, J. M., B.Sc. Lectr.\*  
Steel, G. S., B.Sc. Lectr.\*  
Cassie, W. F., B.Sc. Asst.\*

*Engineering, Electrical*

- Mackay, W. Morton, B.Sc. Lectr.\*

*English Lang. and Lit.*

- Webster, A. Blyth, M.A.  
Berry Prof. of E. Lit.

*Lectrs. and Assistants :*

- Peterson, W. G., M.A.  
Clyde, W. M'C., Ph.D.  
Soutar, G., M.A., D.Litt.

Reader.\*

- Walker, W. A., M.A. Asst.\*

*French Lang. and Lit. and Rom.  
Philol.*

- Lewis, C. B., B.A., L. ès L., Ph.D.  
Lectr.†

- Stewart, W. M'C., M.A. Lectr.†

- Dickinson, Gladys, M.A. Asst.†

*Geology* †

- Innes, D. E. I., M.A. Reader.

- Walker, F., B.A., Ph.D. Lectr.

- Welch, F., B.A., Ph.D. Asst.

- Scott, James F., Ph.D. Glas. Asst.

*German and Teut. Philol.*

- Carr, C. T., M.A. Lectr.

- Hayens, K., M.A., D.Litt. Lectr.\*

*Hebrew and Oriental Langs.*

- Kay, D. M., D.S.O., D.D. Edin.,

M.A., B.Sc. Prof.

- ..... Asst.

*History, Mediæval*

- Baxter, J. H., M.A., B.D. Lectr.

*History, Modern*

- [Reader.  
Williams, J. W., M.A., B.Litt. Ox.

\* At Dundee.

† At St. Andrews and Dundee.

- Burn, W. L., B.A. Asst.  
 Sellon, H. G. R., B.A. Ox. Asst.  
*Law, Scots* [Lectr.\*  
 Allison, J., C.B.E., M.A., LL.B.  
*Law, Conveyancing*  
 Carlton, H. J., M.A., LL.B. Lectr.\*  
*Logic and Metaphysics*  
 Stout, G. F., M.A. Camb., LL.D., F.B.A. Prof.  
*Logic and Psychology*  
 Wright, J. N. Lectr.\*  
 Mace, C. A. Lectr. & Asst.  
 Wisdom, A. J. T. D., B.A. Lectr.  
*Mathematics and Applied Maths.*  
 Turnbull, H. W., M.A. Reg. Prof.  
 Steggall, J. E. A., M.A. Camb. Prof.\*  
 Copson, E. T., M.A. Ox., D.Sc. Edin. Head of Dept.  
 Lectrs. and Assistants :  
 Simpson, Mary C., M.A. Asst.\*  
 Timms, Geoffrey, Ph.D. Asst.  
 Guthrie, W. G., M.A. Asst.  
*Medicine and Surgery, v. infra*  
*Music*  
 Sawyer, F., Mus.Bac. Lectr.  
*Natural History*  
 Thompson, D'A. W., C.B., M.A., D.Litt., F.R.S. Prof.  
 Peacock, A. D., M.Sc., D.Sc. Durh. Prof.\*  
 Sutherland, Christina, B.Sc. Asst.  
 Gresson, R. A. R., B.Sc. Asst.\*  
*Philosophy, Moral, v. also Logic*  
 Morrison, D., M.A. Prof.  
 ..... Asst.  
*Philosophy, Natural*  
 Allen, H. Stanley, M.A., D.Sc. (Dir. of Physics Res. Lab.) Prof.  
 Bagot, J. C. Lectr. & Asst.  
 Robson, W. G., A.R.C.S., B.Sc. Lectr.  
 Jack, D., M.A., B.Sc. Asst.  
 Forrest, J., M.A., B.Sc., D.Sc. Lectr. & Asst.\*  
 Smith, Winifred J., B.Sc. Asst.\*  
 Smart, Raymond, M.A. Asst.\*
- Physics* [Harris Prof.\*  
 Peddie, W., D.Sc. Edin.  
*Physiology* [Chandos Prof.  
 Herring, P. T., M.D. Edin.  
 Hynd, Alex., M.A., D.Sc. Lectr. & Asst.  
 Weston, F. Asst.  
 Reid, E. W., B.A., M.B., Sc.D. Camb., F.R.S. Prof.\*  
 Stiven, D., Ph.D., D.Sc. Asst.\*  
*Political Economy*  
 ..... Lectr.  
*Psychology, v. Logic*  
*Pub. Health, v. Med.—Fevers*  
*Theology, v. Divinity*  
*Zoology, v. Nat. Hist.*  
 Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)  
*Anæsthetics*  
 Mills, Arthur, M.D. Lectr.\*  
 3 Instrs.  
*Bacteriology*  
 Tulloch, W. J., O.B.E., M.D., D.P.H. Prof.\*  
 Research Assts.\*  
 M'Ewan, T. L., B.Sc., M.B., Ch.B.  
 Craigie, J., M.B., Ch.B.  
*Diseases of Children*  
 Rogers, J. S. Y., M.B., C.M. Lectr.\*  
 Price, Prof. Ll. T. Lectr.\*  
*Diseases, Mental*  
 Mackenzie, W. T., M.D. Lectr.\*  
*Diseases, Throat, Nose, and Ear*  
 Mathers, R. P., M.D. Lectr.\*  
 Gibson, M. J., M.B., Ch.B., F.R.C.S.E. Clin. Tutor.\*  
*Diseases, Skin*  
 Milne, F. M., M.A., B.Sc., M.B., Ch.B. Lectr.\*  
*Fevers and Pub. Health*  
 Burgess, W. L., M.B., Ch.B., M.D., D.P.H., D.T.M. and H. Lectr.\*

\* At Dundee.

Petrie, J., M.B., Ch.B.

Asst.\* (Fevers).

Dickson, Margaret S., M.B., Ch.B.

Asst.\* (Public Health).

### *Forensic Medicine*

Lennox, D., M.D.

Lectr.\*

### *Materia Medica*

Charteris, F. J., M.D. Glas. Prof.\*

Ames, Dorothy H. M., B.Sc., M.D.

Asst.\*

### *Medicine*

Patrick, Adam, M.D. Glas. Prof.\*

Morgan, J. M'I., M.B., Ch.B.

Asst.\*

### *Medicine, Clinical\**

Lectrs.:

Profs. Charteris and Patrick.

Foggie, W. E., D.S.O., M.A., M.D.

### *Midwifery*

M'Gibbon, John, M.B., Ch.B.

Edin. Prof.\*

Fairlie, Margaret, M.B., Ch.B.

Asst.\*

### *Ophthalmology*

M'Gillivray, A., C.M., M.D. Aberd.,

D.Sc. Reader.\*

M'Gillivray, Allister M., M.B.,

Ch.B. Clin. Tutor & Asst.\*

### *Pathology*

Sutherland, L. R., M.B., C.M.

Glas. Prof.\*

Tudhope, G. R., M.B., Ch.B.,

D.P.H., Ph.D.

Asst. & Lectr.\*

Ames, Dorothy H. M., B.Sc., M.D.

Asst.\*

### *Pathology, Clinical*

Milne, F. M., M.A., B.Sc., M.B.,

Ch.B. Lectr.\*

### *Radiology and Elec. Therap.*

Milln, G. H. S., M.B., Ch.B. Instr.\*

### *Surgery*

Price, Ll. T., M.B., C.M. Prof.\*

### *Surgery, Clinical*

Anderson, J., M.B., Ch.B.,

F.R.C.S. Edin. Lectr.\*

Alexander, R. C., M.A., M.B.,

F.R.C.S. Edin. Lectr.\*

Taylor, John, M.D., Ch.M. Tutor.\*

Brown, F. R., M.B., Ch.B.,

F.R.C.S. Edin. Tutor.\*

### *Tuberculosis* [Instr.\*]

Hunter, J. H., M.B., Ch.B., D.P.H.

### *Venereal Diseases*

Averill, C., M.B., Ch.B. Instr.\*

Fulton, Annie, M.B., Ch.B. Instr.\*

\* At Dundee.

## GENERAL INFORMATION

The University was founded in 1411. In 1747 St. Salvator's (1450) and St. Leonard's (1512) Colleges were united under the name "United College of St. Salvator and St. Leonard." St. Mary's College (1537) has, since 1579, been restricted to the teaching of Theology. University College, Dundee (1880), was affiliated to and made to form part of the University in 1897.

**LIBRARY:** 250,000 printed vols. (some of 15th and 16th centuries). MSS. include fine Persian specimens and large folio Antiphonarium. College Library at Dundee. **MUSEUMS** at St. Andrews—Anat., Anthropol., Ethnol., Geol., Mineral, Nat. Hist.; at Dundee—Geol., Med., Nat. Hist. **LABORATORIES** at St. Andrews—in all above depts. except Med., also Chem. (with special Research lab.), Marine, Physics, Physiol., Bot. Garden. At Dundee—Anat., Bact., Chem., Embryol., Engin. (Elec., Hydraulic, Mech.), Mat. Med., Maths., Nat. Hist., Physics, Physiol.

**FACULTIES.** Divinity, Arts, Science, Medicine. Deans: Principal Galloway, Prof. Blyth Webster (English), Prof. Herring (Physiology), Prof. Charteris (Materia Med.).

**DEGREES, ETC.** Courses for graduation in Arts and Science are given both in the United Coll., St. And., and in Univ. Coll., Dundee, some being

given in both places, some—Greek, Hebrew, Hist., Moral Philos., Pol. Econ.—only in St. And., some—Engineering—only in Dundee; Medical, after the first two yrs., and Dental solely, in Dundee, where facilities for clinical instruction are available. Here also are provided courses in Scots Law and Conveyancing. Associated with the Univ. is the Dundee School of Social Study and Training.

The M.A. Course includes a General and a Special examn. The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Latin or Greek must be one, another must be either Maths. or Philos., at least two must be linguistic, and at least one scientific. *Senatus* can, on recommendation of the Fac. of Arts, allow another subject or subjects to be taken in lieu of Lat. or Greek. *Foreign students* may take Arabic or Hebrew in lieu of Latin or Greek. In the Special examn. two cognate subjects must be taken, the whole examn. being passed at one time.

The B.Sc. Ordinary degree in Pure Science involves a 3 yrs.' course, embracing at least 4 subjects with a 1st examn. (4 subjects) and a 2nd (2 subjects); the Honours degree involves a 4 yrs.' course (the last year being devoted exclusively to advanced study in the Hons. subject) with 2 examns.—a 1st in 4 subjects and an Honours in one.

*Diplomas*: Education, for graduates who complete the first year of the Ed.B. course; D.P.H., 12 months; L.D.S., 4 yrs.; L.L.A. (for women), attendance on courses not required, standard about the same as that of the ordinary M.A.; Social Study, 2 yrs. after obtaining M.A. or B.Sc. *Certificate* in Social Study for non-graduates over 21 with good general educn., 2 yrs.

*FEES* for Tuition. M.A., £47:5s.; Hons. M.A., £63; B.Sc., £80; B.Sc. (Engineering), 90 gs.; B.Sc. Hons., 90 gs.; M.B., Ch.B., £182. Combined Courses: M.A. and B.Sc., 112½ gs.; M.A. and M.B., Ch.B., £208; M.A., B.Sc. and M.B., Ch.B., £236; B.Sc. and M.B., Ch.B., £220. The above do not include fees for hospil. ticket or cases of labour, or laboratory fees for use of apparatus, etc. Maximum fee for Research students, 5 gs. a term. Degree fees for M.D. or Ch.M., 20 gs.; D.Litt. or D.Sc., 15 gs.; Ph.D., L.D.S., or D.P.H., 10 gs.; B.Phil. or B.Litt., 6 gs. Dipl. or Certif. in Social Study, 4 gs. Dipl. in Educ., £4:14:6.

*RESIDENCE*. University Hall for Women (Warden) at St. Andrews, £66 and upwards p.a., excl. of tuition fees. Hostel for women students, Dundee (Warden), £62:10s. p.a. Chattan House and St. Salvator's Hall for men (Warden) at St. Andrews, £56 p.a. and upwards, excl. of tuition fees.

*SCHOLARSHIPS FOR GRADUATES*: 14, annual value about £1711; v. also p. 280. Scholarships tenable in other countries: Guthrie (£135 p.a. for 4 yrs.), tenable at Oxford or Cambridge or (with special permission) at a foreign Univ.; Ramsay (£150 p.a. for 2 yrs.), Bruce (£150 p.a. for 2 yrs.), and Berry (£160 p.a. for 2 yrs.) may, with permission of United College, be tenable in another Univ. or Institution.

AN ALUMNUS ASSOCIATION was founded in 1926.

*PUBLICATIONS*. *Calendar* (Sept.). 3s. 6d.; U. Coll. Dundee, *Calendar*, 6d.; Students' Repve. Council's *College Echoes* (St. And.) and *The College* (Dundee); Alumnus Association's *Chronicle* (half-yearly).

## THE YEAR 1928-29

*BENEFACTIONS*. A "Friend of St. Andrews," £14,700 to complete endowment fund for Chair of Hist.; Provost W. Norman Boase, St. Andrews, "Montrose" Entrance Residential Scholarship, £100 a yr. for 3 or 4 yrs.; Lord

Beaverbrook, per Rt. Hon. Stanley Baldwin, £1000 for Med. School; Impl. Chemical Industries, Ltd., £150 to Chem. Res. Lab., St. Andrews, and £100 to Chem. Res. Lab., Dundee; numerous gifts to Library and Museum; a window in Dining Hall, St. Salvador's Residence Hall, St. Andrews, by elected members of Council of Univ. Coll., Dundee; Dental Board of the United Kingdom, £2500 for Dundee Dental Hosp. Buildings and £500 for 5 years towards teaching Dental subjects.

**NEW BUILDINGS.** Erection of Graduation Hall completed; building of St. Salvador's Residence Hall (men students) continued; renovation of interior of Parliament Hall and Upper Parliament Hall Library Buildings; restoration and repair of University Chapel; renovation of interior of Dean's Room, United College; further equipment of Psychological Laboratory; extension of Students' Union and Coll. Library at Univ. Coll., Dundee, continued.

**NEW POSTS.** Additional Lect'ships in English and Geology; Lect'ships in Dental Anat. and Physiol., Dental Histol., Oper. Dental Surg., Dental Mechs., Dental Metall., Dental Mat. Med., Dental Surg. and Path., Orthodontia, Dental Bacter., Additional Clin. Tutorships in Surg. and Med., Assistantship in Applied Maths., Prof. of Botany in the Univ.

**CHANGES IN REGULATIONS, ETC.** Regulation amending the provisions for the General Examn. for the M.A. to enable another subject or subjects to be substituted for Latin or Greek if recommended by the Faculty of Arts.

**NEW DEVELOPMENTS.** Dundee Dental School taken over by the Univ.; Extension of scheme for organizing adult education; courses for railway employees continued; course in Bacter. for Pharmac. Chemists; Board of Studies in Engineering.

**RELATIONS WITH OTHER INSTITUTIONS.** Lectures in various parts of America and in this country by Principal Sir James Irvine and other members of the Teaching Staff. An American Professor under the auspices of the Carnegie Trustees for the promotion of International Peace, delivered lectures at the United College on American History during Whitsun Term 1929.

**DEATHS.** Dr. G. A. Pirie, Instructor in Radiology and Electrical Therapeutics; Mr. Cameron Morrison, Lecturer in Economics.

**RESIGNATIONS.** Mr. A. R. Knight, Lectr. in Philos.; Miss Muriel Smith, Lectr. in German; Miss Margaret W. J. Graham, Asst. in Eng.; Dr. C. Kerr, Lectr. in Clin. Med.; Mr. T. R. Mills, Reader in Latin at Univ. Coll., Dundee.

**HONORARY DEGREES.** *D.D.*—Rev. R. Coupar, Rev. D. M. Forrester, Rev. T. P. Johnston, Rev. R. Macleod, Rev. Professor E. Robertson. *LL.D.*—P. Comrie, H.R.H. the Duchess of York, Lord Blanesburgh, Muirhead Bone, Professor John Dewey, Sir John Gilmour, Principal T. P. Nunn, Professor A. E. Taylor, Professor G. M. Trevelyan.

**STUDENTS.** Full-time: total, 677; research, 24; higher degree (B.Phil. and B.Litt.), 2; preparing for a first degree, 641; diploma students, 10. Part-time: total, 133; research, 23; diploma, 2; occasional, 108. Extra-mural classes: Rly. Geog., 34; Engl., 28; Eur. Politics, 25; Lit., 24; Chem., 63; Physics, 40; Elec., 15; Chem. (Hist.), 50; Physics of to-day and to-morrow, 70; How we behave (Psychol.), 80; Biol. of to-day, 27; Europe after the War, 38; Evolution of Indust. State, 30; Engines and Boilers, 12; Engineering Materials, 24; To-day and to-morrow in Human Affairs (5 lects.), each 500.

**DEGREES.** M.A., 86; B.Sc., 45; B.D., 1; Ph.D., 6; D.Sc., nil; M.D., 6; M.B., Ch.B., 14; D.P.H., 6; L.D.S., 5; Education, 23.

# THE QUEEN'S UNIVERSITY OF BELFAST

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY, K.G., P.C., M.V.O., LL.D.

PRO-CHANCELLORS—Rt. Hon. Sir HUGH O'NEILL, M.P., LL.D.; Sir WM. WHITLA, M.A., M.D., LL.D., D.Sc.

PRESIDENT AND VICE-CHANCELLOR—R. W. LIVINGSTONE, M.A. Ox., D.Lit.

REPRESENTATIVE IN THE PARLIAMENT OF THE UNITED KINGDOM—Col. T. SINCLAIR, C.B., M.D., F.R.C.S. Eng.; IN PARLIAMENT OF NORTHERN IRELAND—Rev. Prof. R. CORKEY, M.A., Ph.D.; R. N. M'NEILL, B.A., LL.B.; Prof. R. J. JOHNSTONE, F.R.C.S.; J. H. ROBB, K.C.

REGISTRAR—Col. T. SINCLAIR, C.B., M.D., M.Ch., F.R.C.S. Eng.

LIBRARIAN—Prof. G. GREGORY SMITH, M.A., LL.D.

SECRETARY—ANDREW PICKEN, B.A., LL.B., B.L.

SECRETARY OF ACADEMIC COUNCIL—Prof. R. M. HENRY, M.A.

BURSAR—JOHN GREEN, C.A.

CHAIRMAN OF CONVOCATION—.....

## PROFESSORS, LECTURERS, ETC.

<i>Accounting, v. Comm.</i>		<i>Agricultural Economics</i>	
<i>Agricultural Botany and Plant Diseases</i>		Harkness, D. A. E., M.A.	Lectr.
Mercer, S. P., B.Sc.	Prof.	<i>Agricultural Zoology</i>	
Clouston, D., B.Sc.	Lectr.	Rhynehart, J. C., F.R.C.S.	Lectr.
Muskett, A. E., B.Sc., A.R.C.S.		<i>Agriculture: Crop and Animal Husbandry</i>	
	Lectr.	Rae, R., B.Agr.	Lectr.
Cairns, H., B.Sc.	Asst.	Hale, R., B.Sc.	Asst.
Seaton, I. W., B.Sc.		Wilson, G., M.R.C.V.S.	
	Lectr. (Plant Genetics).	<i>Lectr. in Dairy Bacteriology.</i>	
Wilson, E. V. B., B.Sc.	Asst.	Allen, L. A., B.Sc.	Asst.
<i>Agricultural Chemistry</i>		<i>Anatomy</i>	
Baskett, R. C., B.Sc.	Lectr.	Walmsley, T., M.D. Glas.	Prof.
Dickinson, F., B.Sc.	Lectr.	Hunter, R. H., M.D., M.Ch., Ph.D.	
Houston, J., M.Sc.	Jr. Lectr.		Lectr.
Baird, J. C., B.Sc.	Asst.	Malcolm, H. P., M.B., Ch.B.	
Common, R. H., B.Sc.	Asst.		Lectr.
Prentice, J. H., B.Sc.	Asst.	Ross, L. N., M.B.	Asst.

- Bassett, W., M.B. Asst. Edward, R. J. S., M.A. (French).  
 Hall, H. P., M.B. Asst. Sueyras, M. (Spanish).  
*Anatomy, Applied, Operative*  
*Surgery and* Carson, J. H. A., M.A. (Maths.).  
 Crymble, P. T., M.B., F.R.C.S. *Dental Science*, v. *infra*  
 Eng. Lectr. *Economics*, v. Ag., Comm., Hist.
- Archæology and Ancient History*  
 Richmond, I. A., M.A. Ox. Lectr.
- Bio-Chemistry*  
 Milroy, J. A., M.A., M.D. Edin. Laurence, S. G., B.Sc. Asst.  
 "J. C. White" Prof. Curran, A. M., B.A. Asst.
- Andrews, S., M.D., B.Sc. *Engineering, Civil*  
 "J. C. White" Lectr. Hummel, F. H., M.Sc. Birm. Prof.  
 Beattie, F. J. R., M.Sc. Jr. Lectr. Finnan, E., M.Sc. Jr. Lectr.  
 Needham, R., B.Sc. Asst.
- Botany*  
 Small, J., D.Sc. Lond. Prof.  
 Lynn, Mary J., M.Sc. Jr. Lectr.  
 Ingold, C. T., M.Sc. Demr.
- Celtic*  
 O'Brien, M., Ph.D., M.A. Lectr.
- Chemistry*  
 Stewart, A. W., D.Sc. Glas. Prof.  
 Marsh, J. K., D.Sc. Jr. Lectr.  
 Russell, A., D.Sc. Asst.  
 Capper, N., M.Sc. Asst.
- Chemistry, Organic*  
 Graham, Hugh, D.Sc. Reader.
- Classics*  
 McElderry, R. K., M.A. Prof. (Greek).  
 Henry, R. M., M.A. (Latin) Prof.
- Commerce*  
 Meredith, H. O., O.B.E., M.A. Camb., M.Com. Manc.  
 Dean of the Faculty,  
 Lectr., in C. and Prof.  
 of Economics.
- Recognized Teachers in the  
 Munic. Coll. of Tech. :  
 Dodd, F. T. Lloyd, M.A., D.Sc. Prof.  
 Boyd, D. T., B.Com.Sc. (Account-  
 ing).  
 Wray, D. C., LL.D. (Coml. Law).  
 Dunne, T. (Econ., Geog., and  
 Business Methods).
- Education*  
 M'Callister, W. J., M.A., B.Sc. Prof.  
 Laurence, S. G., B.Sc. Asst.  
 Curran, A. M., B.A. Asst.
- English Language*  
 Belfour, A. O., M.A. Ox. Reader
- English Literature*  
 Smith, G. Gregory, M.A. Ox. and  
 Edin., LL.D. Edin. Prof.  
 Curgenven, J. P., B.A. Asst.
- Fine Arts (Drama)*  
 Browne, M. (for 1929-30) Lectr.
- French and Romance Philology*  
 Savory, D. L., M.A. Ox. Prof.  
 Stephens, Margaret, M.A. Jr. Lectr.  
 Mouzat, Jean, L. ès L. Asst.
- French, Mediæval*  
 Arnold, I. D. O., Dr. de l'U. Stras. Lectr.
- Geography*  
 Evans, E. E., B.A. Lectr.
- Geology*  
 Charlesworth, J. K., D.Sc. Leeds,  
 Ph.D. Bres. Prof.  
 Hartley, J. J., M.Sc. Asst.
- German*  
 Williams, R. A., Ph.D. Leip.,  
 D.Litt. Dub. Prof.  
 Beare, M., M.A., Ph.D. Asst.
- History, Ancient*, v. Arch.  
*History, Mediæval*  
 Potter, G. R., M.A., Ph.D. Lectr.

*History, Modern* [Prof.  
Todd, J. E., M.A. Ox. and Edin.

*History, Economic, and Polit. Sc.*  
Lemberger, J., M.A. Ox. Lectr.

*Law*

Baxter, J. S., LL.D. Dub., K.C.  
(Dean of Faculty) Prof.  
McNeill, R. N., B.A., LL.B. Lectr.

Special Lecturers :

Monroe, J. H., B.A., LL.B., K.C.  
Black, A., M.A., LL.B., K.C.

*Logic and Metaphysics*

Macbeath, A., M.A. Glas. Prof.  
Salmon, C. V., M.A., Ph.D. Asst.

*Mathematics*

Dixon, A. C., M.A., Sc.D. Camb.  
and Lond., F.R.S. Prof.

*Music*

Brennan, C. J., Mus.Bac. Lectr.

*Philosophy, Moral, and History  
of Philos.*

de Selincourt, O., M.A. Ox. Lectr.

*Philosophy, Scholastic* [Lectr.

Ryan, A. H., B.A., D.D., Ph.D.

*Physics*

Morton, W. B., M.A. Camb. Prof.  
Wylie, J., B.A. Lectr.  
Emel us, K. G., Ph.D. Lectr.  
Brown, W. L., M.Sc. Demr.  
Beck, Louise, M.Sc. Hon. Demr.

"Musgrave" Demrs. :

Bell, J., B.Sc.  
Sloan, R. H., B.Sc.

*Physiology*

Milroy, T. H., M.D., B.Sc. Edin.  
Prof.  
Beattie, M. K., M.D., B.Sc. Demr.  
Nevin, S., M.B., B.Sc. Demr.  
Rankin, J. C., M.D. Hon. Demr.

*Spanish*

Llubera, I. G., M.A., D.Litt. Mad.  
Prof.  
Costello, S., B.A. Asst.

*Technology, v. infra*

*Veterinary Science*

Rice, J. P., B.Sc. Lectr.  
Kerr, W. R., M.R.C.V.S. Asst.  
Lamont, H. G., B.Sc., M.R.C.V.S.  
Asst.

*Zoology*

Wilson, G., O.B.E., M.A., D.Sc.  
Edin., Ph.D. Freib., M.R.I.A.  
Prof.  
Williams, G., M.Sc. Asst.

Medicine (for subjects of first 2  
yrs.—Anat. etc., v. *supra*)

*Bacteriology*

Graham, N. C., M.B.  
"J. C. White" Lectr.  
Bartley, E. O., M.B. Asst.

*Gynaecology*

Johnstone, R. J., B.A., M.B.,  
F.R.C.S. Eng. Prof.  
MacAfee, C. H. G., M.B. Asst.

*Hygiene, v. also Pub. Health*

Wilson, W. J., B.A., M.D., D.Sc.,  
D.P.H. Prof.  
Blair, E. M. McV., M.Sc., Ph.D.  
Asst.

*Materia Med. and Therapeutics*

Allen, F. M., M.D. Lectr.

*Medicine*

Thomson, W. W. D., M.D., B.Sc.,  
D.P.H. Prof.  
Lewis, J. T., M.D., B.Sc. Asst.  
2 Clinical Lectrs.

*Medical Jurisprudence*

The Prof. of Pathology Lectr.  
Houston, Sir Thomas, M.D., B.A.  
Lectr.

*Midwifery and Infantile Diseases*

Lowry, C. G., M.D. Prof.  
M'Clure, H. I., M.B. Tutor.  
Carson, W., M.D. Hon. Demr.  
Lowry, H. C., M.B., F.R.C.S.  
Edin. Hon. Demr.  
1 Clinical Lectr.

*Ophthalm. and Otology* [Lectr.

Craig, J. A., M.B., F.R.C.S. Eng.  
2 Clinical Lectrs.

<i>Pathology</i>		<i>Technology</i> (v. also Agr. and Engin.)	
Drennan, A. M., M.D.	Prof.	Extra-Mural Staff (Hon.), being	
Biggart, J. H., M.B.	Demr.	Profs. and Lectrs. at the	
<i>Pathology, Clinical</i> [Lectr.		Munic. Coll. of Tech.	
Houston, Sir Thomas, B.A., M.D.			
<i>Pharmacology</i>		<i>Architecture</i>	
Mayrs, E. B. C., M.D.	Prof.	Beaumont, I., A.R.C.A.	Prof.
<i>Pharmacy</i> [Lectr.		<i>Building Construction</i>	
Fielden, V. G. L., M.D., Ph.C.		Hampshire, T. R.	Lectr.
<i>Public Health Administration</i>		<i>Chemical Technology</i>	
Thomson, C. S., M.D.	Lectr.	Wren, H., M.A., D.Sc., Ph.D.	Prof.
<i>Public Health, Chemistry</i>		Still, C. J., M.Sc., Ph.D., A.I.C.	Lectr.
Totton, J. H., B.A., B.Sc.	Lectr.	Hughes, K. R., B.A.	Lectr.
<i>Surgery</i> , v. also Anat.		<i>Electrical Engineering and Physics</i>	
Fullerton, A., C.B., C.M.G., M.D.,		Burns, P. L., B.Sc.	Prof. (Elec. E.).
M.Ch., F.A.C.S.	Prof.	Sheppard, W. R. S., B.Sc.	Lectr.
Woodside, C. J. A., M.B.	Asst.	Yeates, J. F., B.Sc.	Lectr.
2 Clinical Lectrs.		Allen, T. P., M.Sc.	Lectr.
<i>Vaccination</i> [Teacher.		Crowley, T. A., B.Sc.	Lectr.
Armstrong, S. R., O.B.E., M.B.		<i>Mathematics</i>	
<i>Dental Science</i>		Earls, J., B.A. (Principal)	Prof.
Hunter, W. M., L.D.S. Edin.	Lectr.	Murphy, J. J. F., B.Sc. Lond.	Lectr.
(Metallurgy)		<i>Mechanical Engineering</i>	
Elwood, H., L.D.S. Edin. and		Smith, J. H., D.Sc., A.R.C.S.	Prof.
Penn. (Mechanics)	Lectr.	Warnock, F. V., B.Sc., Ph.D.,	Lectr.
Swan, W. M., L.D.S., R.C.S. Eng.	Lectr.	A.R.C.S.	Lectr.
(Surgery)		Fforde, W. J. (Design)	Lectr.
M'Keag, H. T. A., B.D.S., B.A.	Lectr.	Sandham, B., B.E. (Nav. Archit.)	Lectr.
Dub. (Orthod.)		<i>Textile Industries</i>	
Fielden, V. G. L., M.D., Ph.C.	Lectr.	Bradbury, F.	Prof.
(Mat. Med.)			
M'Comb, C. H., L.D.S. (Radio-			
graphy)	Lectr.		
Geddes, S., M.B. (Anæsthetics)	Lectr.		
<i>Extra-Mural Studies</i>			
Eason, H. J., B.Sc.	Lectr. & Dir.		

## RECOGNIZED COLLEGES AND TEACHERS

MUNICIPAL COLLEGE OF TECHNOLOGY, BELFAST, v. *supra*—Commerce and Tech. The complete course for the B.Sc. in Engineering or in Textile Technology may be taken at this college.

## GENERAL INFORMATION

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast.

**LIBRARY**, 108,000 vols. **MUSEUMS**: Class. Archæol., Nat. Hist., Medical, *Materia Medica*. **LABORATORIES**: Chemistry ("Donald Currie"), Engineering ("Harland"), Physiology ("Jaffé"), Pathology and Bacteriology ("Musgrave"), Bio-Chemistry and Bacteriology ("White"), Physics, Anat., Bot., Geol., Pharm., Zool., Agric. **HOSPITALS** available for Clinics: 3 general, 10 special (Fever, Maternity, Women, Children, Ophth., Eye, Ear and Throat, Consumption, Lunacy, Skin).

**FACULTIES**. (1) Arts (including Music), (2) Science (including Civil Engin.), (3) Law, (4) Medicine, (5) Commerce, (6) Applied Science and Technology, (7) Agriculture, (8) Theology. Dept. of Dental Science. Deans of Faculties: Profs. (1) Macbeath (Arts), (2) Charlesworth (Science), (3) Baxter (Law), (4) Wilson (Med.), (5) Meredith (Commerce), (6) Hummel (App. Science), (7) Mercer (Agric.), (8) M'Elderry (Theol.).

**DEGREE COURSES**. 3 yrs.—B.A., B.Sc., B.Sc. in Engin. or Textile Tech., LL.B., B.Com.Sc.; 4 yrs.—B. Agr., B.D.S.; 5 yrs. (of which 2 may be in other approved Univs. or Med. Schools)—M.B., B.Ch., B.A.O.; 2 yrs.—LL.B. course and B.D. course for graduates of this or another Univ.

The courses in Elec. and Mech. Engin. are taken in the Municipal College of Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for B.Sc. in Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for the B.Com.Sc. Evening classes in a subject do not qualify for the B.Sc. unless the candidate has concurrent day-time employment in some technical or commercial branch of the same subject.

**Diplomas**. Educn. (1 or 2 yrs.); Higher Dipl. in Educn. (for grads.); Public Health (for grads. in Med.), 2 yrs.; Lic. in Dent. Surg., 4 yrs.

**HIGHER DEGREES**. The M.A. may be taken by a B.A. 1 yr. after graduation (examn. or thesis or independent research). The (1) D.Lit. and (2) LL.D. are conferred on grads. of this Univ. distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or hist. research; they may be obtained by thesis also. The M.Sc. is open to a B.Sc. of the Univ. and grads. of other Univs. holding a degree of similar rank not less than 1 yr. after graduation (thesis or independent research). The D.Sc. is open to grads. of this Univ. 3 yrs. after graduation in any faculty. It is conferred for research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science. The M.D., M.Ch., and M.A.O. are open to grads. in Med. of 3 yrs.' (if also grads. in Arts or Science, 2 yrs.' standing) by examn. or thesis. The M.Agr. may be conferred on a B.Agr. of the Univ. or a graduate admitted *ad eund.* after 2 yrs., for a thesis or independent research. The D.D. is open to grads. in Divinity of this or other app. Univs. of at least 6 yrs.' standing. As regards Ph.D. see p. 18.

**FEES**. Enrolment (annual), 3 gs. Class fees, annual (inclusive)—Arts, 11 gs.; Engineering, 21 gs.; B.Com.Sc., 11 gs.; Dipl. Educn. (2 yrs.), 12 gs.; M.B., B.Ch., 25 gs.; B.Sc. or B.Agric., 22 gs.

**SCHOLARSHIPS, ETC., FOR GRADUATES** of the Univ. Studentships of £50: 5 in Arts, which may be raised by £25 and continued for a 2nd yr.; 4 in Science. Special grants to Med. graduates for original research or clin. study. Mackay Wilson Travelling Med. Schol'p, £100. Musgrave Studentships in Path., Physiol., Physics, Biol., and Chem., of £200 p.a. for research. Four other Studentships of the aggregate annual value of £330.

**RESIDENCE**. Women's Hostel. Board and residence per annum, about £52. Board and lodging obtainable in the town from about 30s. a week upwards.

**ASSOCIATIONS.** A Queen's Univ. Assocn. has been formed, Secs., Major Geo. Thomson, D.S.O., Parliament Buildings, Belfast, and Dr. R. H. Hunter, Queen's University, Belfast.

There is also a Queen's University Club which meets in London. Secy., W. Hawthorne, B.A., B.E., 14 Mount Park Road, Ealing, London, W.5.

**RECOGNITION OF OTHER UNIVS.** Students from other approved Univs. may apply for exemption from a year's attendance for first degree, attendance and examn. in some of the subjects for first degrees in Arts and Science, in consideration of equivalent courses and examns. elsewhere.

**UNIVERSITY EXTENSION** lectures by members of the Univ. Staff are given in Belfast and other towns.

**PUBLICATIONS.** *Calendar* (Oct.), 2s. ; Students' mag., *The Northman*.

## THE YEAR 1928-29

**BENEFACTIONS.** Miss Margaret Elizabeth Porter, £2435 towards a Hostel for men students.

**NEW POSTS.** Lectureships in Dental Anæsth., Dental Radiog., and Dairy Bacter. Two Special Part-time Lectureships in Law. Junior Lectureships in French, Bio-Chem., and Agric. Chem. Assistantships in Bacter., Dairy Bacter., Plant Genetics, and Crop and Animal Husbandry.

**NEW BUILDINGS.** New Laboratory for Dental Mechanics, New Dental Museum and demonstration room, New Women Students' Hall.

**HONORARY DEGREES.** *D.D.*—His Grace the Primate of All Ireland, the Most Rev. Dr. D'Arcy. *LL.D.*—Prof. James MacMaster. *D.Lit.*—Prof. F. M. Powicke, Prof. Rudolf Thurneysen, Rev. Prof. Thomas Walker, Prof. Oskar Walzel.

**STUDENTS.** Full-time: total, 1008, including 48 graduates. Part-time: total, 325, including 27 graduates.

**DEGREES.** M.D., 16; D.Sc., 3; M.A., 6; M.Sc., 11; M.Ch., 2; M.Com.Sc., 2; B.A., 80; B.Sc., 50; LL.B., 10; M.B., 48; B.Com.Sc., 10; B.Agr., 3; D.P.H., 18; L.D.S., 12; Dip. in Ed., 37.

# UNIVERSITY OF DUBLIN, TRINITY COLLEGE

CHANCELLOR—The Rt. Hon. THE EARL OF IVEAGH, C.B., C.M.G.

VICE-CHANCELLOR—The Rt. Hon. BARON GLENNAVY, LL.D.

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR) ; The Rt. Hon. Sir THOMAS F. MOLONY, Bart., LL.D.

PROVOST—E. J. GWYNN, Litt.D.

REPRESENTATIVES IN PARLIAMENT OF IRISH FREE STATE—E. H. ALTON, Litt.D. ; Sir JAMES CRAIG, M.D. ; W. E. THRIFT, M.A.

## SENIOR FELLOWS OF THE COLLEGE

Roberts, W. R. W., D.D., Vice-Provost.

Culverwell, E. P., M.A., Senr. Dean and Catechist.

Russell, R., M.A., Bursar.

Fry, M. W. J., M.A., Senr. Lecturer.

†Macran, H. S., M.A.

Thrift, W. E., M.A., Auditor.

Smyly, J. G., Litt.D.

## JUNIOR FELLOWS OF THE COLLEGE

Mooney, G. W., Litt.D.

Kennedy, W., M.A., Registrar.

†Goligher, W. A., M.A., Litt.D.,  
Senior Proctor.

\*Fraser, J., M.A.

Alton, E. H., Litt.D.

\*Gwynn, R. M., B.D.

\*†Tate, Sir Robert W., K.B.E.,  
M.A., Junr. Dean.

\*Thrift, H., M.A.

\*†Luce, A. A., D.D.

\*Johnston, J., M.A.

\*†Henry, J. M., M.A.

\*†Godfrey, F. La T., M.A.

Joly, John, Sc.D.

Rowe, C. H., M.A.

Fearon, W. R., Sc.D.

Starkie, W. F., Litt.D., Junior  
Proctor.

Synge, J. L., Sc.D.

Bailey, K. C., Sc.D.

Ditchburn, R. W., M.A.

Parke, H. W., M.A.

\* Tutor Fellows.

† Honor Lecturers for 1929-30.

PUBLIC ORATOR—Sir R. W. TATE, M.A.

LIBRARIAN—J. G. SMYLY, Litt.D.

REGISTRAR—W. KENNEDY, M.A.

## REGISTRARS OF THE PROFESSIONAL SCHOOLS

*Law*—W. A. Goligher, Litt.D.

*Physic*—G. L. Allen, M.A.

*Engineering*—H. Thrift, M.A.

*Music*—W. F. Starkie, Litt.D.

*Civil Service*—E. H. Alton, Litt.D.

*Education*—R. J. Fynne, M.A.

*Agriculture*—J. Joly, Sc.D.

*Commerce*—K. C. Bailey, D.Sc.

LADY REGISTRAR—OLIVE C. PURSER, M.A.

WARDEN OF TRINITY HALL—ELIZ. M. CUNNINGHAM, M.A.

## PROFESSORS, LECTURERS, ETC.

*Anatomy*, v. Zool. and Med.  
—Surg.

*Anglo-Saxon*, v. German

*Arabic, Persian, and Hindustani*

Hart, Lt.-Col. E. G., M.A. Prof.

*Astronomy*

Royal Astronomer of Ireland  
(suspended) Prof.

Martin, C. Asst.

*Biblical Greek and Hebrew*

Gwynn, R. M., B.D. Prof.

*Botany*

Dixon, H. H., Sc.D. Prof.

Clark, T. A. Bennet, M.A. Ox.

Asst.

*Burmese*

Nangle, N. C. Lectr.

*Celtic Languages*

Knott, Eleanor Lectr.

*Chemistry*

Werner, E. A., Sc.D. Prof.

Ramsden, W. C. Sr. Asst.

Bailey, K. C., M.A. Lectr.

*Classical Archæol.*, v. Hist.

*Classical Composition* [Lectr.  
Tate, Sir Robert W., K.B.E., M.A.

*Classics* [Regius Prof.

Mooney, G. W., Litt.D. (Greek)

Alton, E. H., Litt.D. (Latin) Prof.

The Tutorial Staff Lectrs.

*Commerce*

Cooke, J., M.A. (Commercial Geo-  
graphy) Lectr.

Butler, W. B. (Accounting) Lectr.

Broderick, T. S., M.A. (Statistical  
Meth.), also Lectr. in Maths.

Lectr.

Smyth, G. E. (Business Organ.,  
Rys. and Transport) Lectr.

Howell, C. E., M.A. (Insurance)

Lectr.

Magrath, C. R. R. (Banking and  
Foreign Trade) Lectr.

*Dental Science*, v. *infra*

*Divinity*, v. also Bibl. Gk., Hist.,  
Theol.

M'Neile, A. H., D.D. Regius Prof.

White, N. J. D., D.D. (Lectr. in  
Hebrew) Abp. King's Prof.

Dungan, W. W., M.A.

Wallace Lectr.

Luce, A. A., D.D. Asst.

Greene, D. C., B.D. Asst.

Oulton, J. E. L., M.A. Asst.

Young, E. J., B.D. Asst.

*Economics*, v. also History

Duncan, G. A., B.A. Lectr.

*Education*

Fynne, R. J., M.A. Dub. and  
Lond. Prof.

*Engineering, Civil*

Clark, D., B.Sc. Lond. Prof.  
 Jackson, J. T., M.A. Asst.  
 Cotter, J. R., M.A. Lectr.  
 M'Cormick, F. R. A., A.R.C.S.I.

*Engin. Practice, Elec.*

Tatlow, W., M.A., B.A.I. Lectr.

*Engineering, Elec. Traction*

Harriss, G. M., M.A. Lectr.

*Engineering, Harbour*

Griffith, Sir J. P., M.A.I.

Hon. Prof.

*Engineering, Sanitary. See San. Constrn. and Planning**English Literature*

Trench, W. Fitz J., M.A. Camb. and T.C.D., Litt.D. Prof.

*French, v. also Romance*

The Tutorial Staff Lectrs.

*Geology and Mineralogy*

Joly, J., M.A., Sc.D. Prof.  
 Poole, J. H. J., Sc.D. (Lectr. in Phys.) Research Asst.  
 Smyth, L. B., Sc.B. (Palæontology) Asst. and Lectr.

*German*

[Prof. Waterhouse, G., M.A. Camb., Litt.D. (Lectr. in Anglo-Saxon)]

*Hebrew, v. also Bibl. Greek, Div.*

Kennedy, W., M.A. Lectr.  
 Luce, A. A., D.D. Lectr.

*History, Ancient, and Classical Archæol.*

[Prof. Goligher, W. A., M.A., Litt.D.  
 Johnston, J., M.A. (also Lectr. Econ.) Asst.]

*History, Ecclesiastical*

Lawlor, H. J., D.D., Litt.D. (also Lectr. on Engl. Bible) Prof.

*History, Modern*

Curtis, E., M.A. (also Prof. of Oratory)

Erasmus Smith's Prof.

Phillips, W. A., M.A.

Lecky Prof.

Maxwell, Constantia E., M.A. (also Lectr. Econ. Hist.) Lectr.

*Irish*

O'Toole, E., M.A. Prof.  
 Beaumont, J. N., M.A. Asst.

*Italian, v. also Romance, Span.*

Tate, Sir Robert W., K.B.E., M.A. Lectr.

*Law*

Bastable, C. F., LL.D. (also Prof. of Pol. Econ.) Reg. Prof.

*Law, Feudal and English*

Baxter, J. S., LL.B. Lond., M.A., LL.D.

Reg. Prof. (also Lectr. in Civil L. and Jurispr.).

*Law, Const. and Crim., etc.*

Moran, Frances E., LL.D. (also Lectr. Com. Law) Reid Prof.

*Mathematics*

Rowe, C. H., M.A.  
 Erasmus Smith's Prof.  
 Donegal Lectr.

Broderick, T. S., M.A. Lectr.

M'Connell, A. J., M.Sc., B.A.

The Tutorial Staff Lectrs.

*Medicine and Surgery, v. infra**Music*

Kitson, C. H., M.A. Camb., Mus.D. Ox., F.R.C.O. Prof.

*Oratory, v. History*

Curtis, E., M.A. Ox.  
 Erasmus Smith's Prof.

*Oriental Langs., v. Arabic, Hebrew, Modern, Sansk.**Philosophy, Moral*

Macran, H. S., M.A. Prof.

*Mental and Moral Science*

The Tutorial Staff Lectrs.

*Philosophy, Natural*

Synge, J. L., M.A. Prof.  
 The Tutorial Staff Lectrs.

*Physics, v. also Geol.*

Ditchburn, R. W., M.A.  
 Erasmus Smith's Prof. of Nat. and Exper. Philos.

- Thrift, H., M.A. Lectr.  
 Poole, J. H. J., Sc.D. Lectr.  
*Physiology*, v. Med.  
*Political Economy*, v. Law  
*Romance Languages*, v. also  
 French, Italian, Spanish  
 Rudmose-Brown, T. B., M.A.,  
 D.Litt. Grenoble Prof.  
*Sanskrit and Comp. Philol.*  
 Dillon, M., M.A. Lectr.  
*Spanish*  
 Starkie, W. F., Litt.D. (also Lectr.  
 in Italian) Prof.  
*Theology, Pastoral*  
 Harvey, Rev. T. A., M.A. Prof.  
*Zoology and Comp. Anat.*  
 Gatenby, J. B., D.Phil. Ox., D.Sc.  
 Lond. Prof.  
 King, Dorothy S., B.A., Sc.B.  
 Asst.
- Medicine**
- Anæsthetics* [Lectr.  
 Kirkpatrick, T. P. C., M.D., Litt.D.  
*Bact. and Preventive Medicine*  
 Bigger, J. W., M.D. Prof.  
 O'Meara, R. A. Q., M.B. Asst.  
*Bio-Chemistry*  
 Fearon, W. R., D.Sc. Lectr.  
*Bio-Physics*  
 Bell, J., D.Sc. Lectr.  
*Laryngology and Otology*  
 Woods, Sir Robt. H., M.Ch.  
 Hon. Prof.  
*Materia Med. and Pharmacy*  
 Rowlette, R. J., M.D. King's Prof.  
*Med. Jurispr.*  
 Bewley, H. T., M.D. Lectr.  
*Medicine, Institutes of, and  
 Physiology.*  
 Pringle, H., M.D. King's Prof.  
*Medicine, Practice of*  
 Craig, Sir James, M.D. King's Prof.  
*Neurology*  
 Purser, F. C., M.D. Hon. Prof.
- Midwifery*  
 Wilson, T. H., M.A. King's Prof.  
*Ophthalmology*  
 Werner, L. E. J., M.B. Lectr.  
*Pathology*  
 Wigham, J. T., M.D. Prof.  
 Lait, J., M.B. Junr. Asst.  
 Pringle, Seton, M.B.  
 Hon. Lectr. (P. of Bone).  
*Physic*  
 Moorhead, T. G., M.D.  
 Regius Prof.  
*Public Health*, v. also Engineer-  
 ing  
 Falkiner, N. M., M.D., D.P.H.  
 Lectr. (Sany. Law and  
 Vital Statistics).  
*Surgery and Anatomy*  
 Dixon, A. F., M.B., Sc.D. Prof.  
 Taylor, Sir Wm., K.B.E., M.D.  
 Regius Prof. of S.  
 Chance, A., M.B.  
 Lectr. in Applied A.  
 Martin, C. P., M.B.  
 Chief Demr. and Univ.  
 Anatomist.  
 Haughton, W. S., M.D.  
 Hon. Prof. (Orthopædic S.).  
 Pringle, S., M.B., F.R.C.S.I.  
 Lectr. (Pathol. of Bone).  
*Radiology*  
 Hardman, T. G., M.D. Lectr.  
*San. Constrn. and Planning*  
 Delap, A. D., B.A., B.A.I.,  
 M.Inst.C.E. Lectr.
- Dental Science**
- Hogan, J. E., L.D.S.  
 Lectr. (*Dental Surg. and  
 Pathol.*).  
 Friel, E. S., M.Dent.Sc.  
 Lectr. (*Orthodontia*).  
 Cockburn, J., L.D.S.  
 Lectr. (*Dental Mechanics*).  
 Micks, R. H., M.D.  
 Lectr. (*Medicine for Den-  
 tal Students*).

## ASSOCIATED COLLEGES

MAGEE COLLEGE, LONDONDERRY, for first three years of B.A. course.

CHURCH OF IRELAND TRAINING COLLEGE, KILDARE PLACE, DUBLIN. The two-years' course of training for teaching in elementary schools is conducted partly at Trinity College, Dublin, and counts towards the Dublin B.A. subject to the candidate qualifying in Latin and a modern foreign language before proceeding as "Sophister" (3rd year).

## GENERAL INFORMATION

Trinity College was founded and incorporated by Royal Charter in 1592 as "*Mater Universitatis*," but no other College has been founded, so that "Dublin Univ." and "Trinity College" are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent of 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation, subject to the consent of a majority of the Fellows and the approval of the Visitors. The general government of the Univ. is in the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the various Faculties and Schools, has the right of appointment to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions.

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs.

THE LIBRARY of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in the United Kingdom. It contains over 390,000 printed books, amongst which there is in the Fagel Library a group of early pamphlets relating to the Dutch and English East and West India Companies. The MSS. are over 2000 in number, and include an important collection in Irish. A General Catalogue of the MSS. was published in 1900, and a Revised Catalogue of the Irish MSS. in 1921. A Catalogue of Printed Books in the library in 1872 was published in 1887 and distributed to the world. There is a Lending Library, which includes 6000 vols. bequeathed by the late W. E. H. Lecky; and smaller libraries in the Schools of Mod. Langs., Med., Maths., and Nat. Scs.

MUSEUMS. The scientific museums include Zool. and Comp. Anat., Geol. and Mineral, Surg. and Med., Path., Mat. Med., Anthropom., Engin. Models, Nat. Philos. The Zoological are among the best collections in the country. The series of vertebrate osteology is extensive. Attached Laboratories offer all facilities for research work. The collection of Geological and Mineralogical specimens is also extensive.

LABORATORIES. Anthropol., Bio-Chem., Bot., Chem., Geol., Histology, Mat. Med., Mech. Engin., Pathology, Physical (Iveagh), Physiol., Zool.

HERBARIUM (rich in plants of N. America, India, S. Africa, and Australia). BOTANIC GARDENS, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College. It is the official residence of the Royal Astronomer of Ireland.

Ample facilities for clinical studies and many appointments for graduates are available in numerous HOSPITALS, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

**PROFESSIONAL SCHOOLS.** Divinity, Law, Physic, Engineering, Indian and Home Civil Service, Agriculture, Forestry, Music, Education, Commerce.

**MATRICULATION.** See Appendices XX. and XXI.

**DEGREES.** Every student must take the B.A. before proceeding to any other degree, except those in music and B.Sc., M.Sc., Ph.D. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr. at the time of entering and keeping all 3 terms of the 2nd yr. However, all students not in a professional school or taking the B.Sc. course are required to attend Arts lectures in every term, unless specially exempted (e.g. those earning their living by teaching). If exempted they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs. (Junr. and Senr. Freshman) all subjects are compulsory : Algebra, Geom., Trig., Mech., Logic, Engl. Essay, Latin, Greek or French or Irish or German. After the examn. ("Little-Go") at the end of the 2nd yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., Comm., and Div. students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching, mainly given by the Tutor Fellows, is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honour B.A.*—known as a *Moderatorship*—can be taken in 11 different groups (viz. 1 Math., 2 Class., 3 Ment. and Mor. Philos., 4 Exp. Sc., 5 Nat. Sc., 6 Hist. and Pol. Sc., 7 Mod. Lit., 8 Leg. and Pol. Sc., 9 Eng. Sc., 10 Celtic, 11 Oriental Lang.), and undergraduate honours in the same subjects (except Nos. 9 and 11) can be obtained in each academic year and in most subjects in each term. The course lasts four years in the case of Nos. 1, 2, 4, 5, 6, 7, three years in Nos. 3 and 10, and two years in No. 8. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years' standing may be admitted M.A. There is no examn. for this, nor is a thesis required.

The B.Sc. is obtained by a 4-year course consisting of 12 terms of lectures and 4 examns. In the first two years English, French, German, Mathematics, Physics, and Chemistry are compulsory. In the last two years the student studies 3 subjects chosen from Physics, Chem., Bot., Zool., Physiology, Anat.

A B.Sc. with hon. is obtained by passing an examn. identical with Moderatorships (see above) in Experimental or Nat. Science.

The B.D. is obtained by an examn. open to all grads. in Arts, and the D.D. is open to any B.D., eight years after taking B.A., and is awarded on a thesis or published theol. work.

The LL.B. course covers 2 yrs.; the M.B., B.Ch., and B.A.O., 5 yrs.; B.Dent.Sc., 4 yrs.; B.A.I., 3 yrs. (optional 4th yr. in Elec. and Mech. Engin.): Agr.B. or Agr. (Forest) B., 4 yrs., of which 3rd and 4th are taken in Univ. Coll. (N.U.I.); B.Comm., 3 yrs. The M.Sc. and Ph.D. (v. p. 18) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs.' standing as B.A., and submit important original work; for LL.D. must be of M.A. standing—a thesis or a published work is required; for M.D. must have taken the M.B. degree and be of M.A. standing; for M.Ch. must be a B.Ch. of 3 yrs.' standing; for M.A.O., a B.A.O. of 2 yrs.' standing; a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A candidate for M.Dent.Sc.

must be a B.Dent.Sc. of 1 yr.'s standing, and pass an examn.; for M.A.I. must have practised his profession for 3 yrs. after graduating as B.A.I. The Mus. D. is granted after an exercise or practical test.

**DIPLOMAS** in Agric., Educn. (Primary and Higher), Econ. and Comm. Knowledge, Elec. Engin., Gynæc. and Obst. (1 yr.'s course), D.P.H., Religious Knowledge (women).

*License* in Engineering (first two years of Arts course and complete course in Engineering). *License* in Med., Surg., and Obst. Science.

*Certificate* in Engineering (complete course in Engineering, but without Arts course).

*Testimonium* in Divinity (2 yrs.' course).

**RECOGNITION OF OTHER UNIVS., ETC.** Credit is allowed for terms kept at Oxford or Cambridge, but no student or graduate of any other Univ. can take the B.A. unless he has kept at least 2 yrs. at Trin. Coll. No student can take any medical degree unless he has attended at least 3 yrs. in Trin. Coll.

A B.A., B.Sc., or M.A. of any of the undermentioned Univs. may be allowed credit *pro tanto* for the first 2 yrs. and the examn. held at their expiration: Aberd., Belf., Birm., Brist., Edin., Glas., Leeds, Liver., Lond., Manch., St. And., Sheff., Wales, and Nat. Univ. of Ireland.

A student who has passed two years in Arts studies at any of the undermentioned Univs. and passed the examns. belonging to that period is given credit *pro tanto* for the first academic year: Adel., All., Bom., Cal., Dacca, Dalh., McGill, Madr., Mel., N. Brun., N. Zea., Panj., Patna, Syd., Tas., Tor., King's Coll. (Windsor, N.S.).

A student who has passed the Matricn. examn. of any Univ. in S. Africa, including Latin, Maths, and either French, German, Dutch, or Greek, is admitted without further examn., and, if a Med. student, is excused the Prelim. Med. examn. Medical students are given credit for lectures and examns. in Zool., Bot., Chem., and Physics of any S. African Univ., and also for lectures and practical work in Anat. and Physiol., but not for the examns. in these last two subjects. Courses in Path. and Bact. at Cape Town and Witwatersrand are also recognized.

A student who has passed the Intern. examn. of any Univ. in S. Africa is permitted to present himself at the Final Freshman examn., with exemption from those subjects in which he has already passed at the Intern. examn.

A student who has passed the B.A. examn. of any Univ. in S. Africa is allowed credit for the rst two collegiate yrs. and for the Final Freshman examn.

To students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly Arts fees.

In keeping terms students from S. Africa are allowed to substitute Dutch for French or German, when 2 languages are required. They should write to the Senior Lecturer for fuller information.

Students in Medicine at any "Grade A" Univ., U.S.A., or at any Dominion or Colonial Univ., may make application to the Dean of the School of Physic for recognition of work done by them. They will be treated according to the general lines adopted in the case of S. African students. No recognition granted under this scheme will exempt a student wishing to take the Dublin degree from spending at least three full years of Med. study in Trin. Coll.

**FEES.** Entrance, £15; Composition for all Arts and Science Lectures, 20 gs. p.a.; Med. course total (including Hospitals and Degree fees), about £150; Dental Sci. total, about £200; Engin., (3 yrs.) £50 (minimum), in addition to Arts Tuition fees; Divinity free for students in Arts, 20 gs. p.a. for others; Commerce, £47 (if Arts Course is taken), £80 (for extern. students).

Among SCHOLARSHIPS, PRIZES, ETC., OPEN TO GRADUATES are: Two studentships of £100 offered at the B.A. degree examn.; prizes from £50 upwards to selected honour graduates with conditions of study and research attached. Madden Prize Fund £424 p.a. awarded to unsuccessful candidates at Fellowships examn. or for research work or as a *Travelling* Scholarship. *Travelling* Prize, £100 in Medicine or Surgery (3 mos. to be spent in Berlin, Paris, or Vienna). A number of other prizes, etc. (including the National Hist., nearly £400), are open to graduates under M.A. standing.

RESIDENCE. The College has accommodation for 320 students. Rent £9 to £20 p.a. for single sets, £14 to £32 for double sets of rooms; dinner in Hall, 14s. a week. Trinity Hall accommodates 40 women; board and residence, £23:10s. to £28:10s. per term of 10 weeks. There is also a hostel for Divinity students of the Church of Ireland.

PUBLICATIONS. *Calendar* (Oct.), 4s., includes information as to courses, results of examns., degrees conferred, etc.; special Suppt. (occasional), lists of past honours, benefactors, etc. *Examn. Papers* of the several Honour schools; of the several Professional schools; of Entrance examns. and prizes; and of Pass Arts, are published in pamphlet form at 1s. per set. The final *War List* has been published, price 2s. 6d. *Book of T.C.D.*, 1591-1891, 21s. (Hodges, Figgis & Co., Dublin). *Hermathena* (occasional). original papers in Arts subjects. *T.C.D. (Students')*, 3d. weekly.

## THE YEAR 1928-29

BENEFACTIONS. The Rockefeller Trustees, £500 p.a. for 5 yrs. for a Research Fellowship in Public Health, and £500 p.a. for 4 yrs., for a Research Fellowship in Bio-Chem. The late Lady Martin, widow of Lt.-Gen. Sir A. R. Martin, K.C.B., £300 for a Prize in Sanitation, in memory of her father, the late Surg.-Genl. Sir Annesley C. C. De Renzy, K.C.B.

LEGISLATION. For the purposes of the Degree in Arts, Training Colleges other than the Church of Ireland Training Coll., Dublin, recognized, e.g. Training Colls. recognized by the Gov. of the Irish Free State, or Great Britain or Northern Ireland. After June 1930, the LL.D. will no longer be given on the results of an examn.

DONNELLAN LECTURER. Professor Charlie Dunbar Broad, M.A., Litt.D.

HONORARY DEGREES. LL.D.—Guinness, the Rt. Hon. Rupert Edward Cecil Lee, Earl of Iveagh, Chancellor of the University; Smith, the Rt. Hon. Frederick Edwin, Earl of Birkenhead. Sc.D.—Eddington, Arthur Stanley. Litt.D.—Cumont, Franz; Galsworthy, John; Heath, Sir Thomas Little; Russell, George William.

STUDENTS. June, 1929: In Arts (including most professional students other than 5th yr. Med.), undergrads., 980; grads., 118; total, 1098. In addition 119 Med. Students not in Fac. of Arts and 92 Primary Teachers in training. Medicine, total, 310; Eng., 43; Divinity, 37; Commerce, 27; Law, 60; Sec. Edn. Dipl. Students, 18.

OTHER DEGREES. D.D., 3; LL.D., 2; M.D., 7; Litt.D., 1; Ph.D., 2; B.D., 4; M.A., 63; B.Comm., 10; M.Sc., 3; B.Sc., 1; LL.B., 19; M.A.O., 1; M.B., 39; B.A.I., 13; B.Dent.Sc., 3; B.A., 208; Mus.D., 2; Mus.B., 1; Lic. in Med., 3.

# THE NATIONAL UNIVERSITY OF IRELAND

VISITOR—H.M. THE KING.

CHANCELLOR—EAMON DE VALERA, B.A., B.Sc., LL.D., Ph.D., T.D.

VICE-CHANCELLOR—PATRICK J. MERRIMAN, M.A., LL.D., President  
University College, Cork, *until* Dec. 31, 1930.

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV. COLLS., DUBLIN  
AND GALWAY, AND ST. PATRICK'S COLL., MAYNOOTH.

REPRESENTATIVES IN THE DAIL—M. HAYES, M.A., T.D. ; P. M'GILLIGAN, M.A., T.D. ; M. TIERNEY, M.A., T.D.

REGISTRAR—FREDERICK H. WIBER, LL.D., 49 Merrion Square, Dublin.

CONSTITUENT COLLEGES. University Colleges, Dublin, Cork, and  
Galway.

RECOGNIZED COLLEGE. St. Patrick's College, Maynooth.

## PROFESSORS AND LECTURERS

Prof. of Catholic Theology—Rev. J. J. Hannon, S.J.

Staffs of the Univ. Colleges, *v. infra*.

Recognized Teachers in approved degree courses in St. Patrick's College, Maynooth (President—Rt. Rev. Monsignor MacCaffrey, Ph.D.).  
*Classics*—Rev. J. F. D'Alton, M.A., D.D., D.Litt. ; Rev. John O'Neill, M.A. ; Rev. J. Duff, M.A. *Eastern Languages*—Very Rev. P. Canon Boylan, M.A., D.Litt. *English*—Rev. C. Mulcahy ; Rev. P. MacSweeney, M.A. *French and German*—Rev. J. L. Rigal, M.A. *Irish*—Rev. G. O'Nolan, M.A., D.Litt. *Maths. and Math. Physics*—Rev. P. J. Browne, M.A., D.Sc. *Expl. Physics*—Rev. Patrick MacLaughlin, M.Sc. *Mental and Moral Philos.*—Rev. M. Forker, D.Ph., D.D. ; Rev. P. Coffey, D.Ph. ; Rev. J. O'Neill, D.Ph. *Music*—..... *Welsh*—Rev. William Breen, B.A. *Education*—W. J. Williams, M.A., Dip. in Ed. (Teaching).

## GENERAL INFORMATION

The National University of Ireland, with its Constituent Colls., Univ. Coll., Dublin, Univ. Coll., Cork, and Univ. Coll., Galway, was founded 1909. For early history, see *Year Book*, 1929.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4) Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce, (9) General Agriculture, (10) Dairy Science. Music is included in Arts and Celtic Studies. Classes are held in all Faculties at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth.

DEGREES: B.A., M.A., D.Litt., B.Mus., D.Mus., D.Litt.Celt.; B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D.; M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health, B.D.S., M.D.S.; B.E., B.Arch., M.E., M.Arch.; B.Comm., M.Comm.; Ph.D.

Course for a First degree in any faculty—9 terms in one of the Constituent Colls. or St. Patrick's.

The M.Sc., M.Agr.Sc., D.Sc., B.Sc., Pub. Health, M.E., M.Arch., Ph.D. may be conferred on graduates or other students for research under prescribed conditions in the Univ. or in a Constituent Coll. during at least 3 terms for a Master's degree or 6 terms for the Doctorate. The duration prescribed for the course of study and research for the Ph.D. is 9 terms (reducible to 6). See p. 18.

*Diplomas* are offered in the subjects of Faculties 1, 3, 8, and in several others; certificates in Commercial subjects. A Higher Diploma in Educn. may be obtained by a graduate of any Univ. of the U.K. or other approved Univ. after a course in one of the Constituent Colls.

FEES: Matricn., £3. Combined examn. and degree, £9 to £21. Diplomas £2 to £5.

STUDENTSHIPS, ETC., FOR GRADUATES. Five of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs.' (one in Medicine, 2 yrs., one in Philosophy, 5 yrs.) standing; a scholarship of £150 in Mental and Nervous Diseases; prize of £100 for Irish Historical Research.

PUBLICATION. *Calendar* (November), 2s.

## THE YEAR 1928-29

HONORARY DEGREES. LL.D.—Rev. E. J. Cullen, J. C. Foley, Rev. Denis O'Doherty, D.D. D.Litt.—Prof. Roger Chauviré D. ès L., Mrs. Helena Concanon, M.A., Right Rev. Monsignor Patrick J. Walsh, M.A.

TRAVELLING STUDENTSHIPS. John O'Donovan, B.A. (Econ.); Edward F. Bannan, B.A. (Fr. and Germ.); Cilian O'Brolcain, M.Sc., H.Dip. in Ed. (Exper. Physics); William A. Honohan, B.A. (Math. Sci.).

DEGREES. B.A., 200; M.A., 29; D.Litt., 1; LL.B., 7; B.Sc., 37; M.Sc., 11; D.Sc., 1; M.B., B.Ch., B.A.O., 34; D.P.H., 20; M.D., 3; M.Ch., 5; M.A.O., 2; B.D.S., 7; Ph.D., 3; B.Agr.Sc., 8; B.Com., 59; M.Econ.Sc., 1; B.E., 26; B.Arch., 5; H.Dip. in Ed., 173; Dip. in Ed., 50; Dip. in Libr. Training, 8; Dip. in Irish Studies, 6; Cert. in Commerce, 1.

# UNIVERSITY COLLEGE, DUBLIN

VISITOR—H.M. THE KING.

PRESIDENT—D. J. COFFEY, M.A., M.B., B.Ch., B.A.O., LL.D.

REGISTRAR—Prof. A. W. CONWAY, M.A., D.Sc., F.R.S.

SECRETARY AND BURSAR—J. W. BACON, M.A.

LIBRARIAN—J. J. O'NEILL.

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>		<i>Botany</i>	
O'Connor, D., A.C.A.	Lectr.	Doyle, Joseph, B.A., D.Sc.	Prof.
<i>Agricultural Botany and Bacteriology</i>		**O'Connor, P., B.Sc., Ph.D.	Demr.
[Lectr.]		<i>Chemistry</i>	
*Gorman, M. J., A.R.C.S.I.		Ryan, H., M.A., D.Sc.	Prof.
<i>Agricultural Chemistry</i>		Algar, J., M.A., D.Sc.	Lectr.
*Stephenson, G.	Lectr.	Keane, J., M.Sc., Ph.D.	Asst.
<i>Agriculture (General)</i>		<i>Chemistry, Organic</i>	
[Prof.]		[Lectr.]	
Drew, J. P., M.Sc., A.R.C.S.I.		*O'Farrelly, A., M.A., F.I.C.	
<i>Anatomy</i>		<i>Chemistry, Physical and Metallurgical</i>	
M'Loughlin, E. P., B.A., M.B., B.Ch., B.A.O.	Prof.	*Leonard, A. G. G., B.Sc., Ph.D.	
McAuley, C. J., M.B., B.Ch., F.R.C.S.	Asst.	Lectr.	
Keenan, E., M.B., B.Ch.	Asst.	<i>Classics</i>	
<i>Animal Nutrition</i>		Tierney, M., M.A. (Greek)	
[Lectr.]		Semple, P., M.A. (Latin)	
Sheehy, E. J., B.Sc., A.R.C.S.I.		Gwynn, A. S. J., M.A., B.Litt.	
<i>Archæology, Celtic</i>		(Ancient History)	
[Prof.]		Farrell, E., B.A.	
Macalister, R. A. S., M.A., D.Litt.		Asst.	
<i>Architecture</i>		<i>Commerce</i>	
Butler, R. M., F.R.I.B.A., F.R.I.A.I.		Shields, B. F., M.A.	
Prof.		Prof.	
Todd, A. C., Dipl. Arch. Liv., A.R.I.B.A.		<i>Dentistry, v. infra</i>	
Demr.		<i>Economics, National, of Ireland</i>	
<i>Banking and Finance</i>		O'Brien, G., B.A., D.Litt., B.L.	
Leet, F. L., LL.D.		Prof.	

\* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

\*\* Demonstrators similarly appointed.

<i>Education</i>		[Prof.]
Corcoran, T., S. J., B.A., D.Litt.		
*Williams, W. J., M.A.	Lectr.	
Aughney, E., M.A., H.Dip.Ed.		
	Asst.	
Cremin, Mrs., B.A., H.Dip.Ed.		
	Asst.	
<i>Engineering, Civil</i>		
Purcell, P. F., M.A., M.A.I.		
	Prof.	
Lewis, F., B.Sc.	Asst.	
<i>Engineering, Electrical, v. Physics</i>		
<i>Engineering, Mechanical</i>		
*Taylor, J., M.A.	Prof.	
**Warwick, F. W., B.A., B.E.		
	Acting Lectr.	
**Cormack, P., F.R.C.S.I.	Demr.	
<i>English Lang. and Philology</i>		
.....	Prof.	
McSweeney, J. J., M.A.		
	Temp. Lectr.	
<i>English Literature</i>		
Donovan, R., B.A.	Prof.	
McCarvill, Mary, M.A.	Asst.	
Hogan, J. J., M.A., B.Litt.	Asst.	
<i>Forestry</i>		
*Henry, A., M.A., F.L.S.	Prof.	
<i>French and Romance Philol.</i>		
Chauviré, R., D. ès L., D.Litt.	Prof.	
O'Kelly, Mary, B.A.	Lectr.	
Harnett, Ellen, M.A.	Asst.	
<i>Geology</i>		
Seymour, H. J., B.A., B.Sc.	Prof.	
Corballis, J., B.Sc., A.R.C.S.I.		
	Demr.	
<i>German</i>		
Macken, Mrs., M.A.	Prof.	
Bowler, Margt., M.A.	Asst.	
<i>History</i>		[Prof.]
O'Sullivan, J. M., M.A., Ph.D.		
Binchy, D. A., M.A., Ph.D.	Acting.	
Webb, J. J., M.A., LL.D.		
	Actg. Lectr. (Munic. H.).	
<i>History, Early, including Mediæval Irish</i>		
MacNeill, J., B.A., D.Litt.	Prof.	
<i>History, Modern Irish</i>		
Hayden, Mary T., M.A.	Prof.	
<i>Horticulture</i>		[Lectr.]
Sherrard, G. O., A.R.C.S.I.		
<i>Irish, Early and Mediæval</i>		
Bergin, O., D.Litt. Wales, B.A., Ph.D.	Prof.	
<i>Irish Lang. and Lit., Modern</i>		
Hyde, D., LL.D., D.Litt.	Prof.	
<i>Irish Language</i>		
O'Farrelly, Agnes, M.A.	Lectr.	
Delargy, J. H., M.A.	Asst.	
Dillon, M., M.A., Ph.D.	Asst.	
<i>Italian and Spanish</i>		
Degani, Maria A., Dipl. Univ. Padua	Prof.	
<i>Law, Constitutional, etc.</i>		[Prof.]
Ryan, M. J., B.A., B.Sc., B.L.		
<i>Law, Jurispr., and Internat. and Roman</i>		
Binchy, D. A., M.A., Ph.D.	Prof.	
<i>Law of Property and of Contracts</i>		
Clery, A. E., B.A., LL.D., B.L.		
	Prof.	
<i>Mathematics</i>		
M'Weeney, H. C., M.A.	Prof.	
<i>Mathematics, Pure</i>		
Egan, M. F., S.J., M.A.	Lectr.	
Keating, G., M.Sc.	Asst.	
<i>Mathematics, Pure and Applied</i>		
*Orr, W. MacF., M.A., D.Sc., F.R.S.	Prof.	
<i>Mathematical Physics</i>		
Conway, A. W., M.A., D.Sc., F.R.S.	Prof.	
<i>Medicine and Surgery, v. infra Music</i>		
Larchet, J. F., Mus.D.	Prof.	

\* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

\*\* Demonstrators similarly appointed.

*Music, Irish*

O'Dwyer, R. Actg. Prof.

*Oriental Languages*

Boylan, P., M.A., D.Litt. Prof.

*Philosophy*

O'Keeffe, D., M.A. (Ethics and Politics) Prof.

Shine, J., M.A. (Logic and Psychology) Prof.

Magennis, W., M.A. (Metaphysics) Prof.

*Physics, Experimental*

Nolan, J. J., M.A., D.Sc. Prof.

Dowling, J. J., M.A., F.Inst.P. Lectr.

Nolan, P. J., M.Sc., Ph.D. Asst.

*Physics and Electrical Engineering*

\*Hackett, F. E., M.A., M.Sc., Ph.D. Prof.

\*\*O'Callaghan, P., A.R.C.S.I.

\*Allen, R. G., B.Sc., M.I.E.I.

Lectr. (*Electro-Technology*).*Physiology and Histology*

O'Connor, J. M., B.A., M.D. Prof.

Conway, E., D.Sc., M.B., B.Ch. Asst.

Dillon, T. W. T., M.B., B.Ch. Asst.

*Plant Breeding*

Caffrey, M., A.R.C.S.I. Lectr.

*Plant Pathology*

Murphy, P., D.Sc., F.R.C.S.I. Prof.

M'Kay, A. T., M.B., B.Ch., B.A.O. Asst.

*Political Economy*, v. also Econ.

Finlay, T. A., S. J., M.A. Prof.

*Welsh*

Jones, J. Ll., M.A., B.Litt. Prof.

*Zoology*

Butler, J. B., M.A., M.B., B.Ch., B.A.O. Prof.

Humphries, Annie, M.Sc. Asst.

## Medicine

*Med. Jurispr.*

Meenan, J. N., M.B., B.Ch., B.A.O., D.P.H. Acting Lectr.

*Mat. Med. and Therap.* [Prof.

Hayes, Maurice R. J., F.R.S.C.I.

*Medicine*

Meenan, J. N., M.B., B.Ch., B.A.O., D.P.H. (Systematic Medicine) Prof.

Moore, H. F., M.D., B.Sc. (Medicine) Prof.

*Midwifery and Gynæc.*

Farnan, R. P., M.B., B.Ch. Prof.

O'Kelly, J. J., B.A., M.B., B.Ch., M.A.O. Lectr. (Obstetrics).

White, R., F.R.C.S.I. Lectr. (Gynæc.).

*Ophthalmology*

Werner, L., B.A., M.B., B.Ch., B.A.O., F.R.C.S.I. Prof.

*Pathology and Bacteriology*

O'Farrell, T. T., F.R.C.S.I., D.P.H. Prof.

*Pathology, Special*

Crofton, W. M., B.A., M.D. Lectr.

*Public Health and Bacteriology*

O'Kelly, W. D., M.D., D.P.H., D.Sc. Pub. Health Prof.

*Surgery*

Barnville, H. L., B.A., M.D., M.Ch. Prof.

*Systemic Surgery*

Meade, H. S., F.R.C.S.I. Prof.

## Dentistry

Sheridan, E., F.R.C.S.I., L.D.S., M.D.S. Prof. (D. Surg.).

Potter, J. I., L.D.S., M.D.S. Prof. (D. Mech.).

Flanagan, L., B.D.S., M.B., B.Ch. Lectr. (Orthod.).

\* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

\*\* Demonstrators similarly appointed.

## GENERAL INFORMATION

The College was constituted by Royal Charter in 1909. The LIBRARY, 65,000 vols., includes the books of the late Catholic Univ. and R.U.I., the Palles Law Library (presented by Archbishop Walsh), the Stopford Green and the Zimmer Celtic Library. MUSEUMS: Ancient History. LABORATORIES include those of the late R.U.I. and of the new buildings completed in 1919.

Under the University Education (Agriculture and Dairy Science) Act 1926 of the Irish Free State the functions of the Royal College of Science for Ireland have been transferred to Univ. Coll., Dublin. For the conditions of transfer, see *Year Book*, 1929.

The LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research in all branches of Chemistry, e.g. extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy, Machine Shop; examples of types of engines aggregating 700 H.P. Hydraulics and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons. Elec. Engin. Labs. with D.C. and A.C. machines. Extensive Physics, Agric., and Nat. Sc. equipment.

LIBRARY with 59,000 Scientific and Tech. books, 10,000 pamphlets, numerous maps, etc.

COURSES are provided for the degrees of the N.U.I. in all Faculties.

FEES for tuition, annual, in degree courses: Arts or Comm.—14 gs.; Science—£20 to £25; Engin.—£20 to £23; Law (in addition to Arts)—8 gs.; Med. (including Coll. Hospl.), whole period—£165.

COLLEGE SCHOLARSHIPS, post-graduate in Arts or Science, 5 of £60.

RESIDENCE. Hostels for men and for women. Students are subject to supervision by Deans of residence.

PUBLICATION. *Calendar*, Nov., 5s.

## THE YEAR 1928-29

STUDENTS. Full-time: total, 1203; graduates, 206. Part-time: total, 155; certif. music, 23; Architecture, 14; Law, 70; Agric. (1 yr. course), 35; Library Dipl., 8; occasional, 5.

Vacation Courses (Summer): post-grad. medical, 18; foreign, 25; Library, 35.

DEGREES OBTAINED. B.A., 112; LL.B., 7; B.Sc., 23; B.Comm., 24; M.B., B.Ch., B.A.O., 49; B.D.S., 6; B.E., 15; B.Agr.Sc., 6; B.Mus., 1; M.A., 15; M.Sc., 13; M.Comm., 1; M.D., 2; M.Ch., 4; Ph.D., 2; D.Sc., 1; Higher Dipl. Educ., 106; D.P.H., 15.

## UNIVERSITY COLLEGE, CORK

VISITOR—H.M. THE KING.

PRESIDENT—P. J. MERRIMAN, M.A., LL D.

REGISTRAR—A. O'RAHILLY, M.A., B.Sc., Ph.D.

SECRETARY AND BURSAR—J. DOWNEY, M Comm.

LIBRARIAN (ACTING)—T. A. CONROY, M.A.

### PROFESSORS, LECTURERS, ETC.

<i>Accounting and Business Administration</i>	Reinhold, W., Ph.D. (Applied Chem.) Asst.
Magennis, A. J., M.Econ.Sc., F.S.A.A. Prof.	<i>Classics</i>
MacCarthy, C. P., M.Comm. Lectr. i Demr.	Treston, H. J., M.A., D.Litt. Prof.
	Porter, W. H., M.A. Dub. Lectr.
<i>Agriculture</i>	<i>Dairy Science</i>
Boyle, C., M.A. Wisc., B.Sc., Ph.D. Lond., D.I.C. Prof.	Grimes, M., B.Sc. Tor., M.Sc., Ph.D. Iowa Lectr. (D. Bact.).
	Lyons, J., A.R.C.S.I., N.D.A., N.D.D. Lectr. (D. Tech.).
<i>Anatomy</i> [Prof.]	McGrath, B. E. Lectr. (D. Eng.).
Fitzgerald, D. P., B.A., M.B.	Pyne, G. T., B.Sc. Lond., M.Sc., Ph.D. Lectr. (D. Chem.).
Henley, F. J., B.A., B.Sc., M.B. Asst.	Murphy, M., M.A., B.Comm. Lectr. (D. Accountancy and Econ.).
Kiely, P., B.Sc., M.Ch., M.D., F.R.C.S. Eng. Asst.	
<i>Archæology</i> [Prof.]	<i>Dentistry, v. infra</i>
Power, Rev. P., D.Litt., M.R.I.A.	<i>Economics and Commerce</i> [Prof.]
<i>Architecture</i> [Lectr.]	Busteed, J., M.Comm., F.S.S.
Hill, H. H., B.A. Liv., A.R.I.B.A.	Larkin, W. P., M.A., Ph.D. Lond. Asst.
<i>Botany</i> [Prof.]	<i>Education, Methods of</i>
Cummins, Maj. H. A., C.M.G., M.D. i Demr.	O'Sullivan, Eliz. M., M.A. Prof.
	<i>Education, History of</i>
<i>Chemistry</i>	McSweeney, E. P. Lectr.
Reilly, J., M.A. Camb., D.Sc. Geneva, Dub., H.Dip.Ed., F.R.C.S.I., F.I.C., F.I.P. Prof.	<i>Engineering, Civil</i>
Taylor, John, D.Sc. Lectr.	Walsh, H. N., M.E., D.I.C. Prof.
Kennedy, R., M.Sc. Asst.	Coffey, Patrick, B.E. Asst.
Drumm, P. J., M.Sc., Ph.D. Asst.	<i>Engineering, Municipal</i>
	Farrington, S. W., B.A., B.E. Lectr.

<i>English</i>	[Actg. Prof.]	<i>Spanish</i>	
Stockley, W. F. P., M.A. Dub.		Cooke, W. C., M.A.	Lectr.
<i>French</i>		<i>Zoology</i>	
Poingt, Marguerite	Asst.	Renouf, Louis P. W., B.A. Camb., Dip. Agric. Camb.	Prof.
<i>Geology and Geography</i>		i Demr.	
Swain, I., B.A., A.R.C.S.I.	Prof.		
<i>German</i>		<i>Medicine</i> (for subjects of first 2 yrs.—Anat., etc., v. <i>supra</i> )	
Boyle, Mrs. Mary, M.A.	Prof.	<i>Hygiene and Public Health</i>	
<i>History</i>		Saunders, J. C., M.B., D.P.H.	Prof.
Hogan, J., B.A.	Prof.	<i>Materia Med.</i>	
<i>Irish Lang. and Lit.</i>		Donovan, T., M.A., M.B.	Lectr.
O'Donoghue, T., D.Litt.	Prof.	i Demr.	
O'Donoghue, E., M.A.	Lectr.	<i>Medical Jurisprudence</i>	
O'Cadhlaigh, C., M.A.	Asst.	O'Donovan, J. M., M.Sc., M.D.	Lectr.
<i>Irish Music</i>	[Lectr.]	<i>Medicine</i>	
Patterson, Annie, B.A., Mus.Doc.		O'Sullivan, P. T., M.D., B.Ch., B.A.O., M.R.C.P.	Prof.
<i>Jurisprudence</i>		<i>Mental Diseases</i>	
Murphy, C. K., M.A., LL.B., H.Dip.Ed.	Prof.	McCarthy, O. F., L.R.C.P. and S. Edin., L.R.F.P.S. Glas.	Lectr.
<i>Law</i>		<i>Obstetrics and Gynaecology</i>	
Daly, George J., B.L.	Prof. (Real Property).	Kearney, J. J., M.D., D.P.H.	Prof.
<i>Mathematics</i>		<i>Ophth. and Otology</i>	
Conran, M. J., M.A., D.Sc.	Prof.	O'Hea-Cussen, V., M.B., D.O.	Lectr.
<i>Mathematical Physics</i>	[Prof.]	<i>Pathology</i>	
O'Rahilly, A., M.A., B.Sc., Ph.D.		Moore, A. E., M.B., B.Ch., B.A.O.	Prof.
<i>Medicine and Surgery, v. infra</i>		<i>Surgery</i>	
<i>Music</i>		Dundon, J., M.B., B.Ch., B.A.O., F.R.C.S.	Prof.
Lacy, F. St. J., F.R.A.M.	Prof.	Pearson, C. B., M.D., M.Ch.	Asst.
<i>Philosophy</i>		<i>Therapeutics</i>	
Fitzgibbon, T. E., B.A., Ph.D.		Cantillon, E. V., M.B.	Lectr.
Louvain	Prof.		
Callaghan, Rev. John, M.A.	Asst.	<i>Dentistry</i>	
<i>Physics</i>		Hackett, J. R., M.B., L.D.S.	Lectr. (D. Surg.)
Bergin, W., M.A. Dub.	Prof.	Sheedy, G., L.D.S.	Lectr. (D. Mech.)
Belas, P. E., B.A., M.Sc., A.R.C.S.I.	Lectr.		
<i>Physiology</i>			
Barry, D. T., M.D., D.Sc., D.P.H., F.R.C.S.	Prof.		
Hamilton, Ellen, M.B., B.Ch., B.A.O.	Demr.		
<i>Romance Languages, v. also French</i>			
Ryan, Mary, M.A.	Prof.		

## GENERAL INFORMATION

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908.

**LIBRARY:** 100,000 vols., including the d'Arbois de Jubainville collection of Celtic works, the Sharman Crawford Library, the Wilson Historical Library, the Sexton Anglo-Indian Library. **MUSEUMS:** Archæol., Ethnol., Geol., Mineral., Nat. Hist., Med.

**LABORATORIES.** Agr., Biol., Chem., Engin. (Testing, 200,000-lb. machine, and Hydraulics), Geol., Physics, Medical School. **BOTANICAL GARDENS.** OBSERVATORY with 8" equatorial and 11" photo. telescopes, seismograph, and 4" siderostat.

Complete Courses provided for all degrees and diplomas of the Univ., except 2 yrs. in the B.Sc.Agric. course. Students are also prepared for the examns. of the Univ. of Lond. The Coll. Certificate in Dairying (2 yrs.' course) is necessary for all who wish to become creamery managers in Ireland.

Commerce students can do 6 mos.' practical work in railway or accountants' offices, etc.

**FEES** for tuition, including College fee: Arts, £45; Science, £76; Engin., £73; Med., £165, including Hospl. fees; Dentistry, £185, including Hospl. fees; Music, £39.

**RESIDENCE.** Hostel for men and hostel for women (charitable trust, R.C. only); students are supervised by Officers of Residence.

**PUBLICATIONS.** *Calendar* (Easter), 6d.; *Sessional Lists* (June), 6d.

## THE YEAR 1928-29

**NEW DEVELOPMENTS.** New Entrance and new Bridge nearly finished. New Dairy Science Inst. being built. Two new Lectureships (Dairy Accountancy and Econ. and Mun. Engin.). About 5000 additions to the Library.

**STUDENTS.** Full-time, 485, including 75 graduates. Part-time, 24.

**DEGREES.** B.A., 27; M.A., 6; B.Sc., 7; M.Sc., 3; B.Comm., 6; M.B., B.Ch., B.A.O., 5; M.D., 2; M.Ch., 3; M.A.O., 1; B.D.S., 1; Ph.D., 1; M.Econ.Sc., 1.

## UNIVERSITY COLLEGE, GALWAY

VISITOR—H.M. THE KING.

PRESIDENT—ALEXANDER ANDERSON, M.A. Camb., D.Sc., LL.D.

REGISTRAR AND SECRETARY—REV. PROF. HYNES.

LIBRARIAN—PROF. HOWLEY.

BURSAR—PROF. WALSH.

### PROFESSORS AND LECTURERS OF THE UNIVERSITY

- |   |  |                                       |
|---|--|---------------------------------------|
| <i>Anatomy</i>                            |  | Kennedy, Miss S., M.A., H.Dip.Ed.     |
| Shea, S., M.B., B.Ch., B.A.O. Prof.       |  | Lectr. (through Irish).               |
| i Demr.                                   |  |                                       |
| <i>Archæology, Celtic</i>                 |  | <i>Irish Lang., Philol., and Lit.</i> |
| Hynes, Rev. J., M.A., B.D. Prof.          |  | O'Maille, T., M.A. Manc., Ph.D.       |
|   |  | Frei., D.Litt. Prof.                  |
| <i>Chemistry</i>                          |  | <i>Irish, Modern</i>                  |
| Dillon, T., M.A., D.Sc. Prof.             |  | Mac Enri, S. P., M.A., M.D. Lectr.    |
| Clarke, Miss R., B.A., D.Sc. Demr.        |  |                                       |
| <i>Classics, Ancient</i>                  |  | <i>Law and Jurisprudence</i>          |
| Fahy, Rev. T., M.A., B.D. Prof.           |  | Arkins, P. A., B.A., LL.B. Prof.      |
| <i>Economics, Commerce, &amp; Acctcy.</i> |  | <i>Mathematics</i>                    |
| M'Bryan, F., M.A., H.Dip.Ed. Prof.        |  | Power, M., M.A., B.Sc. Prof.          |
| Buckley, L., B.Comm., H.Dip.Ed.           |  | M'Kenna, E., M.A., M.Sc.,             |
| Lectr. (through Irish).                   |  | A.R.C.S.I.                            |
|   |  | Lectr. (through Irish).               |
| <i>Education</i>                          |  | <i>Medicine and Surgery</i>           |
| Larkin, P., B.A., H.Dip.Ed. Prof.         |  | Mahon, R. B., M.D., M.Ch.,            |
|   |  | F.R.C.S.E. (Pract. of M.) Prof.       |
| <i>Engineering, Civil</i>                 |  | McDermott, E. N., B.Sc., M.B.,        |
| Rishworth, F. S., B.E., B.A. Prof.        |  | B.Ch., B.A.O. (Materia Med.),         |
| Glynn, J. P., M.E. Sub. Prof.             |  | etc. Prof.                            |
| O'Connor, H. G., M.E. Asst.               |  | English, Adeline, M.B., B.Ch.,        |
|   |  | B.A.O. (Mental Diseases)              |
| <i>Engineering, Electrical</i>            |  | Lectr.                                |
| Griffith, W. G., B.Sc. Lond.,             |  | Morris, D. V., M.B., B.Ch., M.A.O.    |
| M.I.C.E.I. Prof.                          |  | (Obst. and Gynæc.) Prof.              |
| <i>English Language and Lit.</i>          |  | Mac Enri, S. P., M.A., M.D. Dub.,     |
| Byrne, W. A., M.A. Prof.                  |  | B.Ch. (Ophth. and Ot.) Prof.          |
| <i>Geology and Mineralogy</i>             |  | Walsh, T., M.A., H.Dip.Ed., B.Sc.,    |
| Mitchell, J., B.Sc., B.E. Prof.           |  | M.D., D.P.H.                          |
| <i>German</i>                             |  | Prof. of Pathology and                |
| Shea, Mrs. M. M., M.A. Prof.              |  | Lectr. in Med. Jur. and               |
| <i>History (Special Reference to</i>      |  | Hygiene.                              |
| <i>Irish H.)</i>                          |  |                                       |
| O'Sullivan, Mrs. D., M.A. Prof.           |  |                                       |

O'Malley, M. G., M.B., B.Ch., F.R.C.S.E. (Practice of S.) Prof.	<i>Philosophy</i> Howley, J. F. W., M.A., D.Litt.	[Prof.]
Assts. in Obst. and Gynæc. and Pharmacy:	<i>Physics</i> The President	Prof.
Morris, D. V., M.B., M.A.O.	McHenry, J. J., M.A., M.Sc.	Asst.
Waters, J. J., M.B.	<i>Physiology</i> Donegan, J. F., M.B., B.Sc.	Prof.
<i>Natural History</i> Dinan, T. J., M.Sc.	<i>Romance Languages</i> O'Brien, W., M.A.	Prof.

## GENERAL INFORMATION

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908.

**LIBRARY:** 50,000 vols. **LABORATORIES:** Physics, Chem., Biol., Physiol., Path., Geol., Engin. **MUSEUMS:** Nat. Hist., Mat. Med., Gynæc., Anat. Dept.

**DEGREE COURSES** in Arts, Celtic, Science, Law, Med., Engin., Commerce. Courses for Diplomas in Educn., Irish Studies, Commerce, and Public Health.

Med. degree students are required to spend 1 yr. at a Metropolitan Hospl. after a 4 yrs.' course in the College and 2 yrs. in the Galway Hospitals.

**FEES.** College, £2 (women, £1). Degree courses (approximately): Arts, £26; Science, £30 to £45; Law, £12; Medicine (including 2 years' General Hospital fees), £78; Engineering, £46; Commerce, £32. Post-graduate or research course, £5.

**SCHOLARSHIPS** open to students of the Coll. on graduation: 4 of £30.

**RESIDENCE.** The cost of board and lodging for a student varies from 26s. to 30s. a week. Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt., who exercises supervision over their conduct within the precincts of the College.

**PUBLICATIONS.** List of licensed lodging-houses, free; *College Calendar* (1s. 4d.); Regns. for Degrees and Courses (8d.); Regns. for Scholps. and Diploma in Educn. (2½d.); Gaeltacht Scholarships (1½d.), from O'Gorman and Co., Galway; Univ. Examn. Papers (post free, 1s. 8d.), from Supervisor of Examns., Univ. Coll.

## THE YEAR 1928-29

**STUDENTS.** Full-time, 303, including 18 graduates. Part-time, 82.

**DEGREES OBTAINED.** B.A., 27; B.Sc., 4; M.Sc., 1; LL.B., 2; M.B., 5; B.E., 7; B.Comm., 20; Higher Diploma in Education, 13.

## CANADIAN UNIVERSITIES

In *Nova Scotia* : ACADIA, DALHOUSIE, KING'S COLLEGE, ST. FRANCIS XAVIER. In *New Brunswick* : NEW BRUNSWICK, MOUNT ALLISON. In *Quebec* : BISHOP'S COLLEGE, LAVAL, MCGILL, MONTREAL. In *Ontario* : McMASTER, OTTAWA, QUEEN'S, TORONTO, TRINITY COLLEGE, VICTORIA, WESTERN ONTARIO. *Western Provincial Univs.* : MANITOBA, SASKATCHEWAN, ALBERTA, BRITISH COLUMBIA.

### GENERAL DESCRIPTION

[Contributed by A. Stanley Mackenzie, Ph.D., D.C.L., President of Dalhousie Univ., President for 1920 of the Conference of Canadian Univs. An account by President Walter C. Murray, of the Univ. of Saskatchewan, of "University Development in Canada" is to be found in the Transactions of the Royal Society of Canada, Third Series, 1922, vol. xvi.]

It is probably not true to say that Canada has evolved a distinctive type of Univ.; and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States. One might divide Canadian Univs. into groups, determined by the prototype after which each was consciously or unconsciously modelled. In the first group are those which followed closely the Oxford tradition—King's, New Brunswick, Bishop's, Toronto, and some of its federated colleges (University, Trinity, Wycliffe). The Univs. in the second group are those which modelled themselves on Edinburgh, viz. Dalhousie, McGill, Queen's. Laval in Quebec, Laval in Montreal (which has lately changed its name to that of the Univ. of Montreal), and Ottawa have followed closely the forms and tradition of France. The four western provincial Univs. of Manitoba, Saskatchewan, Alberta, and British Columbia, and especially the three last, bear a close resemblance to the State Univs. of the United States. The Univs. which have not been named are perhaps more free from direct imitation of older types.

As the years have gone by, all these institutions, while maintaining individuality and evidences of their original form, have tended to uniformity in many important regards. Thus, they all require four years for the Bachelor (Pass) degree in Arts or in Science. Again, they have a common standard of preliminary education for admission to the course leading to these degrees. This standard is that attained by a satisfactory completion of three years of a High School course superimposed on eight years in the common schools. This standard is called Junior matriculation. If a pupil has successfully completed the fourth year of the High School course in the proper subjects, or passes the equivalent Senior matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes which have a fourth year course give in that year about the same work

as is done in the first year of the Univ. course for the Pass degree. In Ontario the High School Course leading to Junior Matriculation standard covers four years instead of three.

**JUNIOR MATRICULATION.** Students can satisfy the Entrance requirements of the Univs. either by examination or on certificate from a standard High School or accredited Preparatory School or Collegiate Institute or School, provided such certificate shows a Pass in the Required Subjects of matriculation. These required subjects differ somewhat from one Univ. to another. Practically all Univs. require for candidates for the B.A. degree the following six subjects: (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ. a seventh subject; it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B.Sc. the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science or Engineering; but the best schools of Applied Science require in addition to the requirements (1) to (4) of Arts, Advanced Algebra, Advanced Geometry, Trigonometry, Physics, Chemistry, and at least one foreign language.

The curriculum for students of Medicine has been undergoing a change in all the Canadian Schools. At least a year has been added to the length of the course at each Univ. In general the course of study requires 7 years following on Junior Matriculation. In some of the Univs. 6 of these years must be taken in the Medical School. In others the first 2 years (which are largely pure science) may be taken in any recognized Arts College.

There has been a similar advance in the standard of preliminary education required of students seeking admission to the study of Law. In the chief schools at least 2 years of Arts is required. At all the Schools the Law course proper extends over 3 years.

Two years have been added to the standard of preliminary education required of students entering upon the study of Dentistry. It is now the equivalent of 2 years in Arts and Science, and is practically identical with that for Medicine.

**ARTS COURSE.** Speaking very generally, one can say that about one-half of the course for the degree of B.A. is prescribed and the other half elective; but these elective subjects are commonly to be distributed among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin (British Columbia and Manitoba require only one), Philosophy, Mathematics, and Science. In the case of the B.Sc. degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs. which distinguishes them from the typical Univs. of the United States is the provision made for the

ambitious student and the student who wishes to specialize during his course for the B.A. degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs. the Honour classes are confined to the third and fourth years of the course; in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree with Honours. No small measure of the academic success of Canadian students in post-graduation work in home and foreign Univs. is to be attributed to this system.

By a proper combination of studies a student can complete a combined course for the degree in Arts or Science and that in a professional faculty in a year (in some cases, two years) less than the sum of the years required for each.

**LENGTH OF SESSION.** The Canadian Univs. open about October 1, and close in May or early in June. The average length of the session is  $32\frac{1}{2}$  weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the  $32\frac{1}{2}$  weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

**CONSOLIDATION OF THE COLLEGES IN THE MARITIME PROVINCES.** During the last few years a great deal of attention and consideration has been given to this question, which in one form or another is a century-old problem (see article by Murray referred to above). It has come prominently to the fore now because of the impossibility of so many small institutions (mostly sectarian) in a region containing only a million people being able to keep pace with the financial demands of modern education. The Carnegie Foundation for the Advancement of Teaching was invited to send experts to make a survey of the situation. They did so, and made a report, in which they advised that all these institutions should move to Halifax and join with Dalhousie, already there, in forming a strong central University. Each constituent was to maintain its name, identity, individuality, organization, and funds, but give up its examining and degree-granting powers (except in Divinity) to the Univ. The Colleges should not teach the scientific subjects nor those subjects for which there would be a small demand, which should be given by the Univ. In general, the Colleges should restrict themselves to the Humanities. The Univ. would conduct all professional schools. The Colleges were to be residential. It will be seen that the scheme was something between that of Oxford and that of Toronto. It was a fair inference to be drawn from the report that, if the various institutions in question would get together, and the governments concerned make a grant-in-aid to the central Univ., the Carnegie Corporation of New York would give the scheme very generous

aid. Representatives of the educational institutions and interests held many conferences and agreed upon a scheme of consolidation, and the Carnegie Corporation promised a gift of \$3,000,000. At this stage the scheme was halted, for the time being at least, by the refusal in succession of the Univ. of New Brunswick (non-sectarian), St. Francis Xavier's College (Roman Catholic), and Acadia College (Baptist) to enter it. In the meantime, King's College (Anglican) moved from Windsor to Halifax, and entered into a close association with Dalhousie Univ. (non-sectarian). The students of both institutions are taught as one body by the combined staffs, except in certain freshman classes (and in Divinity). King's holds in abeyance her degree-granting powers (except in Divinity), and the Univ. conducts all exams. and grants degrees. On the understanding that King's would raise the sum of \$400,000 for the erection of the necessary residential buildings, the Carnegie Trustees undertook to provide \$600,000 to be used as an endowment for the payment of an instructional staff for the combined students. Mount Allison Univ. (United Church) has recently decided to remain at Sackville (N.B.). The original scheme of confederation having thus failed, the Carnegie Corporation offer has lapsed. There is no degree-granting educational institution in the adjoining colony of Newfoundland, but the various interests there are very favourable toward the general scheme of a confederation of the educational forces of Eastern Canada. They have recently organized a Junior College at St. John's for the first two years of the work for the Arts degree. The Carnegie Corporation has promised a grant-in-aid for a period of five years.

THE TWELFTH NATIONAL CONFERENCE OF CANADIAN UNIVERSITIES was held at McGill Univ. and the Univ. of Montreal, Montreal, Que., on June 4-7, 1928. The subjects discussed were: The Social Life of Quebec, University Co-operation in Quebec, Science Preliminary to Agricultural Research, Where the Graduates go, The Distribution of Canadian Men of Science, Proposals for Assisting Canadian Graduates to find Employment, Extra-mural Work, Report of Committee on Dental Education, The Teaching of Philosophy, of Physics, of Greek Literature, of Arts and Sciences in the Classical Colleges of Quebec, of Classics and of Chemistry. The Report can be obtained from the Secretary, Prof. Carleton Stanley, McGill University, Montreal, Quebec.

President for 1929—Dean G. H. Ling, Ph.D. Saskatchewan, Saskatoon.

#### DEGREES IN DIVINITY FOR STUDENTS BELONGING TO THE ANGLICAN CHURCH IN CANADA

The Church Universities and Theological Colleges in Canada having entered into an agreement to adopt a uniform standard for degrees in Divinity; all such degrees are now only conferred in accordance with Canon X of the General Synod of Canada, and only on examn. by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs. of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont.), St. John's (Winnipeg), Emmanuel (Saskatoon), St. Chad's (Regina), Anglican Theol. Coll. of B.C.

## NOVA SCOTIA TECHNICAL COLLEGE, HALIFAX

This institution represents the principal effort of the province in education of University grade. It is supported entirely from provincial revenues. Through a co-operative agreement, a uniform matriculation and a uniform engineering course covering the general work of the freshman and sophomore years is carried out entirely in the Univs. of Acadia, Dalhousie, King's, Mount Allison, St. Francis Xavier, and St. Mary's College. On successful completion of this course, the student proceeds to the Technical College without examn. for the professional work of the last 2 of the 4 yrs.' course. Here the studies are differentiated and the student elects either Civ., Elec., Mech., or Mining Engineering. The degree given is that of B.Sc. The Technical Coll. confines its attention entirely to the work of the junr. and senr. yrs. It is equipped principally for teaching the engineering courses and commercial testing of industrial materials and natural resources, and incidentally for scientific research. Tuition fees: \$75 p.a. Twenty county scholarships of \$75 p.a. are available for Nova Scotians. The buildings and equipment represent a provincial investment of about \$600,000. [*Contributed by the Department of Educn., N.S.*]

## MARINE BIOLOGICAL STATIONS

Under the control of the Minister of Marine and Fisheries through the Biological Board, four main stations are operated. On the Atlantic coast one station is located at St. Andrews, N.B., another at Halifax, N.S. On the Pacific coast there is a station at Nanaimo, B.C., and another at Prince Rupert, B.C. The stations at St. Andrews and Nanaimo are mainly for fundamental research, and are open to duly qualified and recommended univ. graduates as volunteer workers during the summer. The stations at Halifax and Prince Rupert are more for educational and experimental work directly bearing on the economic side of the fisheries. The Halifax station staff co-operates with Dalhousie Univ. in furnishing a course for students leading to a B.Sc. in Fisheries. For that purpose the Board maintains a separate laboratory at the entrance to Halifax harbour. In connexion with the Nanaimo station a field research station is maintained at Cultus Lake, B.C., for the study of salmon. There is also a special laboratory at the Univ. of Manitoba for the study of fish cultural problems in the Prairie Provinces.

The publications of the Board are Contributions to Canadian Biology and Fisheries, Studies, and Bulletins. The Directors of the various stations are: Dr. A. G. Huntsman, St. Andrews; Dr. A. H. Leim, Halifax; Dr. W. A. Clemens, Nanaimo; Mr. D. B. Finn, Prince Rupert. The executive office of the Board is at Ottawa; Secretary-Treasurer, J. J. Cowie, Department of Marine and Fisheries.

## THE CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING

The object of the Foundation, which was established in 1906 with resources which now amount to 30 million dollars, is to provide retiring allowances and pensions, and, "in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher education." It operates both in the U.S.A. and in Canada. The following classes of persons are eligible for retiring allowances: (1) A person in an institution on the associated list who (a) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof. and instr., or (b) has served 25 years as prof. or 30 years as instr. or as prof. and instr., and who is shown by medical examn. to be

entirely unfitted by disability for continuing the work of teacher; (2) a widow who has for 10 years been the wife of any teacher of class (a) or (b). The direction of the Foundation is entrusted to a board of 25 trustees, mostly university and college presidents. The offices of the Foundation are at 522 Fifth Avenue, New York City.

The list of associated institutions includes ALBERTA, BRITISH COLUMBIA, DALHOUSIE, MCGILL, MANITOBA, QUEEN'S, SASKATCHEWAN, and TORONTO. Up to June 1929, 1633 allowances and pensions had been granted, including 90 in Canada and 5 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their free distribution. Among these are bulletins on Medical Education in Europe, Education in the Maritime Provinces of Canada, Games and Sports in British Schools and Universities, and the Quality of the Educational Process in the United States and Europe.

#### NATIONAL COUNCIL OF EDUCATION

THE NATIONAL COUNCIL OF EDUCATION, Canada, was organized at a Conference on Education in relation to Citizenship held in Winnipeg in 1919. With the co-operation of Universities and Departments of Education the Council is developing a Bureau of Education, and has organized a system of National Lectureships whereby eminent lecturers are brought from Great Britain to Canada. The Bureau facilitates exchange of information between the provincial depts. of Education, the diffusion in Canada of ideas and information from outside the Dominion and *vice versa*. Triennial Conferences on Education are held, the next of which will be in Halifax in 1931. Executive Secretary, Boyd Building, Winnipeg.

CANADIAN STUDENTS IN THE UNIVERSITIES OF THE UNITED KINGDOM, v. Appendix XXII.

SCIENTIFIC AND INDUSTRIAL RESEARCH, v. Appendix XXIV.

STATISTICAL TABLES relating to Canadian Universities and Colleges are published by the Dominion Bureau of Statistics, Ottawa, in its Annual Survey of Education in Canada, price 50 c.

# ACADIA UNIVERSITY, WOLFVILLE, NOVA SCOTIA

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## PROFESSORS, LECTURERS, ETC.

- |   |                                 |                                 |
|---|---------------------------------|---------------------------------|
| <i>Biology</i>                          | [C. F. Myers Prof.              | Thomas, F. S., M.A. Tor.        |
| Perry, H. G., M.A. Harv., D.Sc.         | Asst. Prof.                     |                                 |
| Roscoe, Muriel V., Ph.D.                |                                 | MacLaurin, L., Ph.D. Chic.      |
| Radcliffe Prof.                         | Asst. Prof.                     |                                 |
| Bayne, P. M., M.A. Tor.                 |                                 | Harriman, W. H., M.A. Brown     |
| Asst. Prof.                             | Asst. Prof. in Public Speaking. |                                 |
| <i>Chemistry</i>                        |                                 |                                 |
| Hill, D. U., M.A., Ph.D. Yale           | Prof.                           | <i>Geology</i>                  |
| Chester, W. S., M.A. Tor.               |                                 | Bancroft, M. F., M.A. Yale      |
| Asst. Prof.                             |                                 |                                 |
| De Long, W., M.Sc., Ph.D. Tor.          |                                 | <i>German</i>                   |
| Asst. Prof.                             |                                 | Ross, Roy, M.A. Yale            |
|   |                                 | Prof.                           |
| <i>Classics</i>                         |                                 |                                 |
| Thompson, W. H., jun., M.A.,            |                                 | <i>History</i> [Prof.           |
| Ph.D. Yale                              | Barss Prof.                     | Dadson, T., M.A., Ph.D. Chicago |
| Salmon, E. F., M.A. Ox.                 |                                 | Longley, R. S., M.A. Harvard    |
| Asst. Prof.                             |                                 | Asst. Prof. (H. and Econ.).     |
| <i>Economic Science</i> , v. also Hist. |                                 | Milner, W., LL.D.               |
| Balcom, A. B., B.Sc., M.A. Harv.        |                                 | Spl. Lectr. in Canadian Hist.   |
| Wallace Prof.                           |                                 |                                 |
| <i>Education</i>                        |                                 | <i>Household Economics</i>      |
| Mills, H. C., M.A. Harv.                |                                 | McNally, Frances, B.S., M.A.    |
| Dean of School of Ed.                   |                                 | Dean of School of H.E.          |
| and Prof.                               |                                 | O'Brien, Clarabelle, B.Sc.      |
| Abel, W. H., M.A. Swath.                |                                 | Morton, Edith, B.Sc.            |
| Prof. of Art.                           |                                 | Jarvis, Florence                |
| <i>Engineering</i> [I. Curry Prof.      |                                 | Instr., Institution Man-        |
| Wheelock, F. E., M.A., Ph.D. Yale       |                                 | agement.                        |
| Sutherland, A., B.Sc.                   | Prof.                           | Ricker, Annie L.                |
| Steeves, R. T., M.A.                    | Asst. Prof.                     | Instr., Textiles, Clothing,     |
|   |                                 | and Art.                        |
| <i>English Lang. and Lit.</i>           |                                 |                                 |
| Rhodenizer, V. B., M.A., Ph.D.          |                                 | <i>Library Science</i> [Instr.  |
| Harv.                                   | Prof.                           | Ingraham, Mary Kinley, M.A.     |

*Mathematics* [White Prof.  
Jeffery, R. L., Ph.D. Cornell  
Evans, Ed., M.A. Chicago

Asst. Prof.

*New Test. Lang. and Lit.* [Prof.  
De Wolfe, H. T., B.A., D.D., LL.D.

*Old Test. Lang. and Lit.*

Hutchins, W. N., M.A., Ph.D.  
Chic. G. P. Payzant Prof.

*Osteology and Physiology*

De Witt, C. E. A., B.A., M.D.  
McGill Instr.

*Physical Training* [Director.

Osborne, W. T., M.A. Corn.

Kelley, F. C. Instr.

*Physics* [Alumni Prof.

Haley, F. R., M.A. Harv.

The Provost I. Curry Prof.

Fisher, R. M., Ph.D. Clark

Asst. Prof.

*Psychology* [Prof.

Cook, T. W., M.A., Ph.D. Yale

*Romance Languages*

Massey, E. R., M.A. Prof.

Hilborn, H. W., M.A. Tor.

Assoc. Prof.

*Theology and Philosophy*

Spidle, S., B.D., Ph.D. Clark

Prof.

MacDonald, J. H., C.B.E., D.D.

Prof. of Church Hist. and  
Bible Lit.

Department of Music

Collins, E. A., Mus.B. Camb.,  
F.R.C.O., Dean of School of  
Music, Piano, Organ, Theory.

Newnham, F. L., L.R.A.M.,  
A.R.C.M., Instrn., Organ and  
Voice.

Brown, Jean C., B.Mus., Piano.

Forbes, Agnes, A.R.C.M., Voice.

MacDonald, Ruth B., Voice.

Langley, Beatrice J., Cert. Roy.

Conserv., Berlin, Violin.

..... Violoncello.

## GENERAL INFORMATION

Founded in 1838 by the N.S. Baptist Educational Society, Acadia College was incorporated in 1840 by Act of the N.S. Legislature, with the powers of a University. In 1896 an endowment of \$100,000 for the Theol. Dept. was received under the will of G. P. Payzant. The Board of Governors is appointed by the Baptist Convention of the Maritime Provinces, but the students are subject to no religious tests.

**LIBRARY:** 65,000 vols. **MUSEUMS:** Biol., Ethnol., Geol., Hist. **LABORATORIES:** Biol., Chem., Geol., Physics, Engineering. **OBSERVATORY:** Meteor. and Astron.

**DEPARTMENTS.** Arts and Sciences, Theology, Applied Science, Household Economics, Music.

**DEGREE COURSES.** 4 yrs.—B.A., B.A. (Theol.), B.Sc., B.Sc. (Hd.Ec.); 3 yrs.—B.Mus.; 1 yr. (graduate study)—M.A.; 2 yrs.—B.D. The B.Sc. Engineering courses enable graduates to enter the 3rd year classes of McGill Univ. and N.S. Tech. Coll. Some of the B.A. and B.Sc. courses enable graduates to enter the 2nd yr. of the Dalhousie Law School, Halifax, and the Med. Dept. of McGill Univ., respectively.

**FEES for tuition:** in Arts and Sc. or Theol., \$120 (board provided at \$7 to \$7.50 per week, including room); in Appl. Sc. (2 yrs.), \$120. Lab. fees extra, about \$30.

**RESIDENCE.** College hostels provide accommodation for 70 men and 228 women; University Dining Hall capacity, 600.

**PUBLICATIONS.** *Bulletin*, 25 cents p.a.; *Calendar*, number issued in July.

## THE YEAR 1928-29

BENEFACTIONS. \$309,423,36.

NEW DEPARTMENTS AND POSTS. Depts. of Psych. and Ed. reorganized as separate depts. Prof. outside regular Faculty appointed for adult educ. work. Regular programme of music and educl. addresses by Broadcasting Dept. New courses in which independent work required of students and regular conferences with prof.

EXTRA-MURAL WORK. Correspondence-study Department with 40 students.

HONORARY DEGREES. *D.D.*—Henry Alford Porter, Charlottesville, Va.; Ivan Murray Rose, Philadelphia. *D.Sc.*—Harry Coulter Todd, Oklahoma City, Okla. *D.C.L.*—John Edgar Eaton, Boston.

STUDENTS. Full-time: total, 511, including 21 graduates.

Part-time: Total, 76, including — graduates.

DEGREES. B.A., 53; B.Sc., 14; B.Sc.H.Ec., 9; B.D., 2; B.A. (Th.), 5; B.Th., 2; B.Mus., 3; M.A., 4.

# UNIVERSITY OF ALBERTA, EDMONTON

VISITOR—THE LIEUTENANT-GOVERNOR OF THE PROVINCE.

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F.G.S., F.R.S.C.

REGISTRAR—A. E. OTTEWELL, M.A.

LIBRARIAN—D. E. CAMERON, M.A. Edin.

## PROFESSORS, LECTURERS, ETC.

*Accountancy*  
Anderson, A. J., C.A. Lectr.

*Agricultural Engineering* [Prof.  
Smith, J. MacG., B.S.A. Man.

*Agriculture : Field Crops*  
Newton, R., B.S.A. McG., M.Sc.,  
Ph.D. Minn. Prof.  
Assoc. Profs. :

Fryer, J. R., M.A. Tor.  
Aamodt, O. S., M.S., Ph.D. Minn.  
Henry, A. W., M.S.A. Sask., Ph.D.  
Minn.

*Agriculture, History of*  
Howes, E. A., B.S.A. Tor., D Sc.  
Laval Dean of Fac. of Agric.

*Agriculture : Horticulture*  
Harcourt, G., B.S.A. Tor. Lectr.

*Agriculture : Soils*  
Wyatt, F. A., B.S.A. Utah, M.S.,  
Ph.D. Ill. Prof.  
Newton, J. D., B.S.A. Macd.,  
Ph.D. Calif. Assoc. Prof.  
Mather, T. H., B.S.A., M.Sc.  
Alta., Ph.D. Minn. Asst. Prof.  
Ward, A. S., M.Sc. Alta. Lectr.

*Animal Husbandry, v. also*  
*Dairying and Vet.*  
Sackville, J. P., B.S.A. Tor., M.S.  
Iowa Prof.  
Bowstead, J. E., M.S. Wisc.  
Assoc. Prof.

Sinclair, R. D., B.S.A. Alta., M.S.A.  
Iowa Assoc. Prof.

*Anatomy.* [Prof.  
Revell, D. G., B.A., M.B. Tor.  
Shaner, R. F., Ph.D. Harv. Prof.  
Greene, E., M.D., C.M. McG.,  
F.R.C.S. Edin., F.A.C.S.  
Asst. Prof.

*Architecture*  
Burgess, C. S., A.R.I.B.A. Prof.

*Bacteriology, v. Med.*

*Bio-Chemistry*  
Hunter, G., M.A., B.Sc., B.Sc.  
(Agric.) Glasg. Prof.  
Harwood, R. U., M.Sc. Alta. Instr.

*Botany*  
Lewis, F. J., D.Sc. Liv., F.R.S.E.  
and C., F.L.S. Prof.  
Moss, E. H., M.A., Ph.D. Tor.  
Asst. Prof.  
Chalkin, K. M., B.Sc. Wales Lectr.

*Chemistry*  
Lehmann, A. L. F., B.S.A. Tor.,  
Ph.D. Leip. Prof.  
Walker, O. J., B.A. Sask., M.A.  
Harv., Ph.D. McG.  
Assoc. Prof.

Sandin, R., M.Sc. Alta., Ph.D. Chic.  
Assoc. Prof.  
Boomer, E. H., B.Sc., B. Col.,  
M.Sc., Ph.D. McG.  
Asst. Prof.

Stover, N. M., M.Sc. Alta, Ph.D.  
(Ill.) Lectr.

Sutherland, J. W., M.Sc. Lectr.

*Classics*

Alexander, W. H., M.A. Tor.,  
Ph.D. Calif. Prof.

Misener, Geneva, M.A. Qu., Ph.D.  
Chic. Prof.

Hardy, W. G., M.A. Tor., Ph.D.  
Chic. Assoc. Prof.

Caspar, J. W., B.A. Alta., M.A.  
Tor. Instr.

*Dairying*

Marker, C. P., LL.D. Prof.

Thornton, H. R., B.Sc. Alta.,  
M.Sc., Ph.D. Wisc. Prof.

*Dentistry*

[Assoc. Prof.

Bulyea, H. E., D.M.D. Harv.

Craig, W. P., M.A. Wash. and Jeff.,  
D.D.S. (Northwestern) Lectr.

Gilchrist, H. A., D.D.S. Northwn.  
Asst. Prof.

Hamilton, W. S., L.D.S., D.D.S.  
Tor. Instr.

Hope, J. H., L.D.S., D.D.S. Tor.  
Lectr.

Roberts, J. G., L.D.S., D.D.S.  
Tor. Lectr.

Mercer, F. S., L.D.S., D.D.S.  
Tor. Instr.

Sneddon, S. M., L.D.S., D.D.S.  
Lectr.

Strong, O. F., D.D.S. Lectr.

MacCrostie, H., L.D.S., D.D.S.  
Tor. Lectr.

Mason, A. B., D.D.S. Penn. Lectr.

Bradley, R.W., D.D.S. McG. Instr.

Thurston, G. B., L.D.S., D.D.S.  
Instr.

Gemeroy, G. A., L.D.S., D.D.S.  
Tor. Demr.

*Drawing and Descr. Geom.*

Adam, J., M.A. Assoc. Prof.

*Economics, v. Pol. Econ.*

*Engineering, Civil & Municipal*

Wilson, R. S. L., B.Sc. McG. Prof.

Robb, C. A., B.Sc. McG., M.S.  
M.I.T. Prof.

Morrison, I. F., B.S. M.I.T. Prof.

Webb, H. R., M.Sc. Asst. Prof.

Wolfe-Merton, A. W., B.Sc. B.C.  
Sessional Lectr.

Seymour, H. L., B.Sc. Tor.  
Special Lectr. in Town  
Planning.

*Engineering, Electrical*

MacLeod, H. J., B.Sc. McG., Ph.D.

Harv., M.Sc. Prof.

Cornish, W. E., B.Sc. Man. Lectr.

*English*

Broadus, E. K., M.A. Chic., Ph.D.  
Harv. Prof.

Gordon, R. K., B.A. Ox., M.A.,  
Ph.D. Tor. Prof.

Jones, J. T., M.A. Alta., B.A. Ox.  
Asst. Prof.

Wiles, R. M., B.A. Dal., M.A.  
Harv. Lectr.

Fisher, J., B.A. Ox. Instr.

*Entomology*

[Prof.

Strickland, E. H., M.Sc. Harv.

*French and Ger., v. Mod. Langs.*

*Geology*

Allan, J. A., M.Sc. McG., Ph.D.

M.I.T., F.R.S.C. Prof.

Warren, P. S., B.A., Ph.D. Tor.,  
A.R.C.S. Lond., Ph.D. Tor.

Assoc. Prof.

Rutherford, R. L., M.Sc. Alta.,  
Ph.D. Wisc. Asst. Prof.

*History*

[Prof.

Burt, A. L., B.A. Tor., M.A. Ox.

Long, M. H., B.A. McM., M.A. Ox.  
Assoc. Prof.

Murray, Jean, M.A. Tor. Instr.

Sterling, W., B.A. Tor. Asst.

*Household Economics*

Patrick, Mabel, B.A. Tor., M.A.  
Col. Director, Lectr.

McIntyre, E. H., B.Sc. Instr.

Shaver, Ann, B.A. Tor. Instr.

*Law*

Weir, J. A., B.A. Ox., LL.B. Sask.  
Prof. (Dean of Faculty).

Ford, Hon. Mr. Justice F., B.C.L.  
Trin. Coll. Tor., D.C.L. Tor.

Hon. Prof.

Nielson, S., B.A., LL.B. Alta.,  
J.D. (Stanford) Asst. Prof.

Tweedie, Hon. Mr. Justice  
Special Lectr.

3 Sessional Lectrs.

### *Mathematics*

Sheldon, E. W., M.A. McG., Ph.D.  
Yale Prof.

Campbell, J. W., M.A. Qu., Ph.D.  
Chic. Prof.

Cook, A. J., B.Sc., M.A. Harv.,  
Ph.D. Chic. Asst. Prof.

Keeping, E. S., B.Sc. Lond., D.I.C.  
Asst. Prof.

### *Medicine, v. infra*

### *Mining Engineering*

Pitcher, N. C., B.Sc. McG. Prof.  
Cameron, A. E., M.Sc. McG., D.Sc.  
M.I.T. Prof. of Metall.

### *Modern Languages*

Kerr, W. A. R., M.A. Tor., Ph.D.  
Harv., O.I.P. (France)

Prof. and Dean of Fac.  
(Arts and Sc.).

Coar, J. F., M.A., Ph.D. Harv.  
Prof. (German).

Sonet, E., B. ès L. Lyons, M.A.  
Alta., D. ès L. (Rennes)

Prof. (French).

Owen, F., M.A. Tor., Ph.D. Chic.  
Assoc. Prof. (Ger.).

de Savoye, H., B. ès L. Paris, LL.B.,  
Off. d'Acad.

Asst. Prof. (French).

Allard, H., M.A. Man., B.A. Ox.  
Lectr.

Rev. Brother Rogatian, F.S.C.  
Lectr. (Spanish).

### *Philosophy*

MacEachran, J. M., M.A. Qu.,  
Ph.D. Leip. Prof.

Macdonald, J., M.A., D.Litt.  
Edin. Assoc. Prof.

Lazerte, M. E., B.A. Tor., M.A.,  
Ph.D. Chic. Assoc. Prof.

Rev. Brother Philip, F. S. C., M.A.  
Tor., Ph.D. C.U.A.

Asst. Prof.

Smith, H. E., B.A. Ill., M.A.  
B.Educ. Alta., Ph.D. Cal.

Asst. Prof. of Edn.

### *Physics*

Boyle, R. W., M.Sc., M.A., Ph.D.  
McG., F.R.S.C.

Prof. and Dean of Fac.  
(App. Sc.).

Smith, S., M.A., B.Sc. Ox.,  
F.R.S.C. Prof.

Lang, R. J., B.A. McM., M.A.,  
Ph.D. Tor. Assoc. Prof.

Nichols, L. H., B.A. McG., M.A.  
Asst. Prof.

Taylor, G. B., M.Sc. Lectr.  
Gowan, E. H., B.A., B.Sc. Alta.,  
Ph.D. Ox. Lectr.

### *Physiology and Pharmacology*

Downs, A. W., M.A. Phila., M.D.  
Penns., D.Sc. McG. Prof.

Eddy, N. B., M.D. Corn.  
Assoc. Prof.

Ferguson, J., B.A. Tor., M.A.  
Stanf. Lectr.

### *Political Economy*

Elliott, G. A., M.A. Man. Prof.  
Cassels, J. M., B.A. Ox. Lectr.

Hewetson, H. W., B.A. Tor., M.A.  
B.C. Lectr.

*Poultry* [Instr.]

Milne, H. I., B.S.A. Brit. Col.

### *Veterinary Science*

Talbot, P. R., V.S. Tor., M.D.V.  
Chic. Prof.

*Zoology* [Assoc. Prof.]

Rowan, W., M.Sc. Lond., F.Z.S.  
Hughes, Winifred, M.A. Sask.,  
Ph.D. Chic. Asst. Prof.

*Medicine* (for subjects of first  
2 yrs.—Anat., etc., v. *supra*)

### *Bacteriology and Hygiene*

Rankin, A. C., C.M.G., M.D.,  
C.M., D.P.H. McG., L.R.C.P.,  
M.R.C.S.

Prof. and Dean of Fac.

Shaw, R. M., B.A. Dal., M.D.,  
C.M., D.P.H. McG.

Assoc. Prof.

Harris, L. C., M.D., C.M. McG.

Demr.

*Dermatology* [Asst. Prof.

Orr, H., O.B.E., M.B., D.P.H. Tor.

*Gynecology and Obstetrics*

Conn, L. C., M.D., C.M. McG.,  
F.A.C.S. Prof.

Harrison, J. D., M.D., C.M. McG.,  
F.A.C.S. Assoc. Prof.

Baker, J. O., M.D., C.M. Qu.  
Assoc. Prof.

Holmes, C. U., M.B. Tor. Instr.

Day, Allan, M.B. Tor. Instr.

*Medicine and Clinical Medicine*

Pope, E. L., B.A. Qu., M.D., C.M.  
McG., M.R.C.S., M.R.C.P.

Prof.

Jamieson, H. C., M.B. Tor.  
Assoc. Prof.

Bell, I. R., B.A., M.B. Tor.  
Asst. Prof. (Therap.).

Hurlburt, C. W., M.B. Tor.  
Asst. Prof. (Cardiology).

Scott, W. H., M.D., C.M. McG.  
Asst. Prof.

3 Instrs.

*Ophthalmology* [Lectr.

Wells, R. B., M.B. Tor., F.A.C.S.

Jamieson, C. V., M.B. Tor. Lectr.

*Pathology*

Ower, J. J., B.A., M.D., C.M.  
McG.

Prof. and Provincial Serologist.

Vango, H. M., M.D., C.M. McG.  
Asst. Prof.

2 Demrs.

*Pediatrics*

Leitch, D. B., B.A., M.B. Tor.  
Asst. Prof.

*Pharmacology*, v. Physiol.

*Pharmacy and Mat. Med.*

Dunn, F. A. S., Ph.C. Tor., M.P.S.  
Gr. Bn. Prof.

Matthews, A. W., B.Sc. Phm.,  
M.Sc. Asst. Prof.

*Psychiatry*

Cook, E. H., M.B., B.S. Durh.  
Lectr.

*Public Health*

Bow, M. R., B.A., M.D., C.M. Qu.,  
D.P.H. Tor. Assoc. Prof.

*Surgery and Clinical Surgery*

Munroe, A. R., M.D., C.M. McG.,  
F.A.C.S. Actg. Prof. of Surg.

Gray, G. C., M.B. Tor., F.A.C.S.  
Asst. Prof.

Blais, A., M.D., B.S. Laval  
Asst. Prof.

Wilson, W. A., M.D., C.M. McG.,  
F.A.C.S. Asst. Prof.

Hepburn, H. H., M.D., C.M. McG.,  
F.R.C.S. Edin., F.A.C.S.

Asst. Prof.

Mewburn, F. H. H., B.Sc., M.D.,  
C.M. McG.

Asst. Prof. (Orthop.).

Smith, E. C., M.D., C.M. McG.  
Asst. Prof.

Gillespie, W. F., M.A. Alta., M.B.  
Lav. Lectr.

6 Instrs.

*Industrial Laboratories*

Kelso, J. A., M.Sc. Qu. Director.  
Reiber, H. G., B.Sc. Asst.

*Industrial Research Profs.*

Stansfield, E., M.Sc. Manc.  
(Fuels).

Clark, K. A., M.A. McM., Ph.D.  
Ill. (Road Materials).

*Physical Education*

Sterling, Wallace, B.A. Tor.  
Director.

Bakewell, E., B.A. Asst. Dir.

*Correspondence Courses*

MacKenzie, D. S. Director.

*Department of Extension*

Corbett, E. A., M.A. McG.  
Director.

Montgomery, Jessie, B.A. Libn.  
Backman, W. S., B.S.A. Lectr.

## AFFILIATED INSTITUTIONS

ST. STEPHEN'S COLLEGE, Theological College of the United Church of Canada, is situated on the University Campus. Principals—A. S. Tuttle, M.A., D.D., Mt. All., Prof. of Philos. of Religion; J. M. Millar, M.A., D.D. Other Profs.: A. D. Miller, M.A. Tor., B.D. Vict., Hebrew, etc.; Clio Jackson, M.A. Tor., B.D. Vict., Ph.D. Chic., New Testament.

ST. AIDAN'S COLLEGE and Hostel (Anglican)—affiliated 1919. Warden—Rt. Rev. H. A. Gray, D.D., LL.D., Bishop of Edmonton.

ST. JOSEPH'S CATHOLIC COLLEGE (Arts). Rector—Rev. Brother Rogatian, F.S.C. Affiliated to the Univ. in May 1926 as an Arts Coll. working under the authority of the Senate; occupies a site on the Univ. Campus on which a combined residential and teaching building has been erected.

THE PROVINCIAL INSTITUTE OF TECHNOLOGY AND ART, Calgary, is under the authority of the Department of Education. Affiliated May 13, 1926. Principal—W. G. Carpenter, B.A., LL.D.

## GENERAL INFORMATION

Telegraphic address—VERA (A.B.C. Code).

For the early history of the University, created by Act of the Provincial Legislature, 1906, see *Year Book* for 1929. In 1919-20 the large post-war increase in the number of medical students necessitated the construction of a new Medical Building. In the same session the creation of the office of Director of the School of Pharmacy completed the evolution of the School from a Dept. under the Fac. of Medicine to an independent unit. Similarly in 1928-29 Commerce and Household Economics were raised to the Status of Schools and provision made for a School of Education, the latter taking over from the Provincial Normal Schools the professional training of Univ. graduates. The Provincial Legislature has established a close relationship between the Univ. and the Professions, and the Senate now has jurisdiction over the educational standards of Architects, Chartered Accountants, Dentists, Engineers, Land Surveyors, Lawyers, Pharmacists, Physicians and Surgeons, Registered Nurses, Optometrists, and Veterinary Surgeons.

The University grounds, 637 acres, beautifully situated on the wooded south bank of the Saskatchewan, include provision for the accommodation of affiliated colleges and afford ample room for expansion. Edmonton is a city of about 75,000 inhabitants, the capital of the Province of Alberta.

LIBRARY, 36,000 vols. LABORATORIES for all scientific courses; museum; herbarium; farm; agricultural experimental plots.

FUEL TESTING LABORATORY. For the detailed study of the chemical and physical properties of Alberta coals; also for investigating industrial problems such as coking, carbonizing, briquetting, combustion, storage and purification of coal.

RESEARCH LABORATORIES OF DEPARTMENT OF FIELD CROPS. These laboratories have been developed during the past six years for the investigation of special problems underlying crop production in Western Canada. Progress has been greatly facilitated by grants-in-aid of special researches received from the National Research Council. The programme of investigation covers such important problems as the nature of resistance to frost, drought, and disease; methods of eliminating false wild oats; and factors affecting the milling and baking qualities of wheat.

**FACULTIES.** Arts and Sciences (including Household Economics, Pharmacy [degree], Commerce and Education); Applied Science (Civil, Mining, Chemical, and Electrical Engineering and Architecture); Medicine (including Dentistry, Pharmacy [diploma], and Nursing); Law; Agriculture.

**MATRICULATION** examns. are conducted in April and Sept., under control of High School and Univ. Matricn. Examns. Board of the Province. Equivalent examns. by recognized authorities in the British Dominions are accepted *pro tanto* for admission.

**DEGREE COURSES.** 4 yrs.—B.A., B.Sc. in Arts, B.Com., B.Sc. in Household Ec., in Engin. (Civ., Elec., Chem., or Mining), in Archit., or in Pharmacy; 3 yrs. (after qualifying in a Provincial Sch. of Agr.)—B.H.Ec. (in Household Econ.), B.Sc. in Agric.; 6 yrs.—M.D.; 5 yrs.—B.Sc. in Nursing, LL.B., D.D.S. Combined B.A. and B.Sc. in Agric.—6 yrs.; B.A. and B.Sc. in Applied Sc.—6 yrs.; B.A. and M.D.—8 yrs.; B.A. and LL.B.—6 yrs. The Agric. course is preceded by preliminary training at one of the Provincial Agric. Schools.

A Bachelor may obtain the M.A. or M.Sc. by 1 yr. of advanced study or investigation or the B.Ed. by 2 yrs. of advanced study. The D.Sc. is conferred for distinction in original research in the field of science. The B.D. is open to B.A. students of affiliated Colls. on completion of approved courses. The LL.D. is honorary.

**OTHER COURSES:** For Licence in Pharmacy; Correspondence Courses for Teachers (Senr. Matricn. subjects); Summer Session in co-operation with the Summer School for Teachers conducted by the Provincial Dept. of Educn.; Professional qualification for the Teacher's Academic Certificate issued by the Provincial Dept. of Education; 3 mos.' course in P.H. Nursing for Registered nurses; Provincial Dairy School short courses; 3 yrs.' course for qualification of Regd. Nurse.

A system of **EXCHANGE LECTURES** is carried on in co-operation with Manit., Sask., and British Columbia Universities.

**FEES**, tuition per session: Arts (including 4 yrs.' degree courses in Pharmacy and Household Economics and 1st yr. Commerce), \$85; subsequent years B.Com., \$90 to \$100; Appl. Sc., \$85 to \$125; Law, \$110; Med., \$140 to \$190; Dent., \$140 to \$210; Agric. (including 3 yrs.' course Household Economics), \$60. Licentiate Pharmacy, \$100 to \$120. Students' Union, \$10; Med. Service, \$5; Library, \$5.

**RESIDENCE, ETC.** 5 Halls of residence (including 2 belonging to affiliated Colleges), with accommodation for 525. Fees for room and board for the session, \$259; board only, \$25 per month. Social life is under supervision of Provost, a Univ. officer. All undergraduates are members of Students' Union.

**UNIVERSITY EXTENSION** work includes lectures at local centres, publication of material for debating and public discussion, travelling and packet libraries, and lantern slide and cinema services. The Extension Dept. has its own Radio Broadcasting Station.

**PUBLICATIONS.** *Calendar* (June); *Press Bulletin*, weekly, by Dept. of Extension; *The Trail*, quarterly, by Alumni Assocn.; *The Gateway*, weekly, *The Evergreen and Gold*, annually, by students.

## THE YEAR 1928-29

**BENEFACTIONS.** Bursary of 11,000 f., gift of the French Govt. for study in France; Ewart Beresford Memorial Prize in Chemistry, Arthur Blow Condell

Prize in English, John Henry Stanley Memorial Prize in History, 2 Prittie Scholarships in Biology and Chemistry; Bronze Medal in French given by the Ministère des Affaires Étrangères (France).

NEW BUILDINGS. Completion of south wing of Univ. Hospital.

EXTENSION WORK. Lantern slides sent out, 1794 sets; films, 405 sets; lectures, 338; travelling libraries, 237; radio lectures, 296; University Week for Farm Young People.

VISITS OF TEACHERS FROM OTHER UNIVS. Prof. W. F. Osborne of the Dept. of French, Univ. of Manitoba; Prof. W. W. Swanson of the Dept. of Economics, Univ. of Saskatchewan.

DEATHS. Frank Hamilton Mewburn, M.D., C.M., LL.D., Professor of Surgery (1922-29); Alphonse Paul Pelluet, Asst.-Professor of French (1914-1929).

HONORARY DEGREES. LL.D.—The Hon. Richard Bedford Bennett, K.C., LL.D., M.P.; Henry Wisewood, President, United Farmers of Alberta; Charles Camsell, Deputy Minister of Mines for Canada.

STUDENTS. Full-time: total, 1223, including 64 graduates. Part-time: total, 278.

DEGREES. B.A., 54; B.Sc. in Arts, 14; B.Com., 10; B.Sc. in Pharmacy, 1; B.Sc. in Household Economics, 6; B.Sc. in Civil Engin., 2; B.Sc. in Elect. Engin., 9; B.Sc. in Mining Engin., 5; B.Sc. in Engin. Physics, 1; B.Sc. in Agric., 10; Bachelor of Household Economics, 1; LL.B., 8; M.D., 18; D.D.S., 9; M.A., 5; M.Sc., 4; B.D., 1.

# UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

CHANCELLOR—F. E. MEREDITH, K.C., D.C.L., LL.D.

VICE-CHANCELLOR—Rev. A. H. MCGREER, O.B.E., M.C., M.A. Ox.,  
D.D., Principal of the College and Dean of Arts.

REGISTRAR—S. SANDERS, Bursar and Secy. of the College.

FACULTY OF ARTS—DEAN, THE PRINCIPAL.

FACULTY OF DIVINITY—DEAN, Rev. P. CARRINGTON, M.A. Camb.,  
Harold Prof. of Divinity.

## PROFESSORS AND LECTURERS

Boothroyd, E. E., M.A. Camb., D.C.L., Prof. of History, Vice-Principal.

Burt, Rev. H. C., M.A., T.C. Tor., Prof. of Philos. and Econ.

Call, F. O., M.A., D.C.L., Prof. of Mod. Langs.

Carrington, Rev. P., M.A. Camb. and N. Zeal., Dean of Divinity and  
Harold Prof.

James, L., B.A., Lectr. in English.

Kuehner, A. L., M.A. Queen's, Prof. of Natural Science.

Home, M., M.Sc. McGill, Lectr. in Sci.

Preston, A. W., M.A. Edin., B.A. Ox., Lectr. in Classics.

Raymond, W. O., M.A., Ph.D. Mich., Prof. of English.

Richardson, A. V., M.A. Camb., Prof. of Maths.

Rothmey, W. O., M.A. Chic., B.D., Ph.D. Hartf., Prof. of Education.

Sauerbrei, C., B.A. Tor., L.S.T., Lectr. in Hebrew and Old Test.

Vial, F. G., M.A., B.D., D.C.L., Warden of the Divinity House,  
Mountain Prof. of Past. Theol.

## GENERAL INFORMATION

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College.

The College provides ordinary and Honours courses for the B.A. degree, covering 3 yrs., and a 3 yrs.' course for the L.S.T. Divinity is a compulsory subject in each of the years of the ordinary course. Terms kept in other Univs. may be counted up to 2 yrs. Clergymen of the Dioceses of Quebec and Montreal may proceed to the B.A. by examns. without residence if of 6 yrs.' standing, and on a reduced period (1 or 2 yrs.) if of 4 or 2 yrs.' standing.

Examns. are conducted for degrees in Music.

**FEES.** For tuition, \$125 p.a. for an Arts student; \$75 p.a. for a Divinity student; board and furnished lodging with heating and lighting, \$325 p.a.  
**PUBLICATION:** *Calendar* (Oct.).

**THE YEAR 1928-29.** Honorary degrees: D.C.L.—His Excellency, the Governor-General of Canada; the Hon. the Prime Minister of Quebec; Sir François Lemieux, Kt.; Sir Herbert Holt, Kt.; Rev. Leonard Hodgson, M.A.; George M. Stearns, Esq.; S. Percy Smith, Esq., M.A. Number of Students: Full-time, total, 159. Degrees: B.A., 37; M.A., 6; L.S.T., 6; Mus.Doc., 1.

# THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHANCELLOR—R. E. McKECHNIE, M.D., C.M., LL.D., F.A.C.S.

PRESIDENT—LEONARD S. KLINCK, B.S.A. Tor., M.S.A., D.Sc. Iowa,  
LL.D. West Ont.

REGISTRAR—S. W. MATHEWS, M.A. Qu.

LIBRARIAN—J. RIDINGTON.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture, v. infra*

#### *Bacteriology*

Hill, H. W., M.B., M.D., D.P.H.  
Tor., L.M.C.C. Prof.  
Stewart, Mrs. C., M.A. Instr.  
3 Assts.

#### *Botany*

Hutchinson, A. H., M.A. McM.,  
Ph.D. Chic. Prof.  
Dickson, Frank, B.A. Qu.  
Assoc. Prof.  
Davidson, J., F.L.S., F.R.S.E.  
Asst. Prof.  
Newton, William, B.S.A. McG.,  
M.S., Ph.D. Calif. Hon. Lectr.  
3 Assts.

#### *Chemistry*

Clark, R. H., M.A. Tor., Ph.D.  
Leip., F.R.S.C. Prof.  
Archibald, E. H., B.Sc. Dal., A.M.,  
Ph.D. Harv., F.R.S.E. and C.  
Prof. (Anal. C.).  
Seyer, W. F., B.A., M.Sc. Alb.,  
Ph.D. McG. Assoc. Prof.  
Marshall, M. J., M.Sc. McG., Ph.D.  
Mass. Inst. Tech. Assoc. Prof.  
Harris, J. Allen, M.A., Ph.D. Ill.  
Asst. Prof.  
Ure, W., M.A.Sc., Ph.D. Cal. Inst.  
Tech. Asst. Prof.  
Allardyce, J., M.A. Instr.  
6 Assts.

### *Classics*

[Prof.  
Robertson, L. F., M.A. McG.  
Todd, O. J., Ph.D. Harv.  
Prof. of Greek.  
Logan, H. T., M.C., B.A. McG.,  
M.A. Ox. Assoc. Prof.  
Owen, E., B.A. Ox. Asst. Prof.  
Auld, Miss Jean M., B.A. Col. Instr.  
5 Assts.

### *Dairying, v. Agric.*

*Economics, Sociology, & Polit. Sc.*  
Boggs, T. H., B.A. Ac. and Yale,  
M.A., Ph.D. Yale Prof.  
Angus, H. F., B.A. McG., B.C.L.,  
M.A. Ox. Prof.  
Day, J. F., B.A. Tor., M.A. Chic.  
Assoc. Prof. (Ec. & Com.).  
Topping, C. W., B.A. Qu., B.D.  
Wes. Theol. Col., A.M. Col.,  
S.T.M. Union Sem., S.T.D.  
Wes. Theol. Col., Ph.D. Col.  
Assoc. Prof. (Ec. & Soc.).  
Drummond, G. F., M.A. St. A.,  
M.Sc. Lond. Asst. Prof.  
3 Assts.

### *Education, v. also Philosophy*

Weir, G. M., B.A. McG., M.A.  
Sask., D.Pæd. Queen's Prof.  
Black, W. G., B.A.B. Col., M.A.  
Chic. Assoc. Prof.

### 6 Part-time Lectrs.

*Engineering, Civil, & Surveying*  
Duckering, W. E., A.B., B.S. in  
C.E., C.E. Wash. Prof.

Matheson, E. G., B.A.Sc. McG.,  
M.E.I.C., M.Am.S.C.E.

Assoc. Prof.

Wilkin, F. A., B.A.Sc. McG.

Asst. Prof.

Finlay, A. H., B.A.Sc., M.S. in  
C.E. III.

Asst. Prof.

Lighthall, A., B.Sc. McG. Asst. Prof.

Stuart, A. G., B.Sc. McG. Instr.

Oliver, J. C., B.A., B.A.Sc. Instr.

*Engineering, Mech. & Elec.*

Vickers, H., M.E. Liv., M.Sc., Ph.D.  
Birm.

Prof.

Vernon, F. W., B.Sc. Lond.,  
Wh. Sch.

Assoc. Prof., Mech. Eng.

Letson, H. F. G., M.C., B.Sc.  
Ph.D. (Eng.) Lond.

Asst. Prof.

Cullwick, E. G., B.A. Camb.

Asst. Prof., Elect. Eng.

Smith, G. S., M.A.Sc. McG.

Asst. Prof., Mech. Eng.

Coulthard, W. B., B.Sc. Lond.

Asst. Prof., Elect. Eng.

Bell, J. F., O.B.E., Eng. Capt.  
R.N., M.E.I.C.

Instr.

1 Asst.

*English*

Sedgewick, G. G., B.A. Dal., Ph.D.  
Harv.

Prof.

MacDonald, W. L., B.A. Tor., M.A.

Wisc., Ph.D. Harv. Assoc. Prof.

\* Wood, F. G. C., B.A. McG., A.M.  
Harv.

Assoc. Prof.

Larsen, Thorleif, M.A. Tor., B.A.  
Ox.

Assoc. Prof.

Walker, F. C., B.A. N. Brun., A.M.,  
Ph.D. Harv.

Assoc. Prof.

Bollert, Miss M. L., M.A. Tor.,  
A.M. Col.\*

Asst. Prof.

Wilcox, F. H., A.B., Ph.D. Calif.  
Assoc. Prof.

Lewis, H. C., M.A. Asst. Prof.

Calvert, D. E., B.A., M.A. Tor. Instr.

4 Assts.

*Forestry*

[Prof.

Christie, H. R., B.Sc. F. Tor.

Knapp, F. M., B.S.F. Syracuse,  
M.S.F. Wash.

Asst. Prof.

Brown, R. M., B.Sc. F. Tor.

Hon. Lectr., Forest Prod.

*French, v. Mod. Langs.*

*Geology and Geography*

Brock, R. W., M.A., LL.D. Qu.,  
F.G.S., F.R.S.C.†

Prof.

Schofield, S. J., M.A., B.Sc. Qu.,  
Ph.D. Mass. I. Tech., F.G.S.A.,  
F.R.S.C.

Prof. of Phys. and Struct.

Geol.

Williams, M. Y., B.Sc. Qu., Ph.D.

Yale, F.G.S.A., F.R.S.C.

Prof. of Palæont. and

Stratigraphy.

Phemister, T. C., D.Sc. Glas., Sc.M.  
Chic., Ph.D. Glas.

Assoc. Prof. of Miner. and

Petrography.

Peacock, M. A., Ph.D. Chic. and  
Harv.

Lectr.

1 Asst.

*History*

Harvey, D. C., B.A. Dal., M.A.  
Ox., F.R.S.C.

Prof.

Sage, W. N., B.A. Tor., M.A. Ox.,  
Ph.D. Tor.

Prof.

Soward, F. H., B.A. Tor., B.Litt.  
Ox.

Assoc. Prof.

Cooke, A. E., B.A. Man., M.A. Ox.  
Asst. Prof.

3 Assts.

*Horticulture, v Agr.*

*Mathematics*

Buchanan, D., M.A. McM., Ph.D.  
Chic., F.R.S.C.†

Prof.

Nowlan, F. S., B.A. Acad., A.M.  
Harv., Ph.D. Chic.

Prof.

Robinson, G. E., B.A. Dal. Prof.

Jordan, E. E., M.A. Dal.

Assoc. Prof.

Richardson, L., B.Sc. Lond.

Assoc. Prof.

\* Dean of Women.

† Dean of Faculty.

Hartley, B. S., M.A. Camb., R.N.  
Asst. Prof.

Brand, F. J., B.A., B.Sc. Ox.  
Instr.

6 Assts.

*Mining and Metallurgy* [Prof.  
Turnbull, J. M., B.A.Sc. McG.

Thomson, H. N., B.Sc. McG.  
Prof. of Met.

Gillies, G. A., M.Sc. McG.  
Assoc. Prof. of Mining.

1 Asst.

*Modern Languages*  
Ashton, H., M.A. Camb., D.Lett.  
Univ. Paris, D.Litt. Birm.,  
F.R.S.C., O.I.P.

Clark, A. F. B., B.A. Tor., Ph.D.  
Harv. Assoc. Prof. (French).

MacInnes, Isabel, M.A. Qu., Ph.D.  
Calif. Assoc. Prof. (German).

Greig, Janet, B.A. Qu., M.A.  
Asst. Prof. (French).

6 Assts.

*Nursing and Health* [Prof.  
Hill, H. W. (v. Bacteriology)

Gray, Miss M. F., R.N., Cert. P.H.N.  
Simmons Coll. Asst. Prof.

13 Part-time Instrs.

*Philosophy*  
Coleman, H. T. J., B.A. Tor.,  
Ph.D. Col. (also Spl. Lectr.  
in Educn.) Prof.

Henderson, J., M.A. Glas. Prof.

Pilcher, Mrs. J. W., B.A., M.Sc.  
New Zealand, A.M., Ph.D.  
Stanford

Assoc. Prof. (*Psychology*  
and *Educn.*).

*Physics*  
Hebb, T. C., M.A., B.Sc. Dal.,  
Ph.D. Chic. Prof.

Hennings, A. E., M.A. Lake  
Forest Coll., Ill., Ph.D. Chic.  
Prof.

Davidson, J. G., B.A. Tor., Ph.D.  
Calif. Assoc. Prof.

Shrum, G. M., M.A., Ph.D. Tor.  
Assoc. Prof.

Grayson-Smith, H., B.A., M.A.,  
Ph.D. Tor. Asst. Prof.

6 Assts.

*Zoology*  
Fraser, C. McL., M.A. Tor., Ph.D.  
Iowa, F.R.S.C. Prof.

Spencer, G. J., B.S.A. Tor., M.S.  
Illinois Asst. Prof.

Campbell, Miss M., M.A. Instr.  
1 Asst.

*Agriculture*

*Agronomy*  
Boving, P. A., Cand. Phil. and  
Agr. (Sweden). Prof.

Moe, G. G., B.S.A., M.Sc. McG.,  
Ph.D. Cornell Assoc. Prof.

Laird, D. G., B.S.A. Tor., M.S.  
Wisc. Asst. Prof.

2 Assts.

*Animal Husbandry*  
King, H. M., B.S.A. Tor., M.S.  
Oregon Ag. Coll. Prof.

Davis, R. L., B.S.A. Mont.,  
M.S. Iowa S.C. Assoc. Prof.

Hare, H. R., B.S.A. Tor., M.A.  
Wis. Assoc. Prof.

Jervis, J. G., V.S. Ont. Vet. Col.,  
B.V.Sc. Tor.

Lectr. in Vet. Sc.

1 Asst.

*Dairying*  
Sadler, W., B.S.A., M.Sc. McG.,  
N.D.D. (Reading) Prof.

Golding, N. S., N.D.A., N.D.D.,  
B.S.A. Tor., M.Sc. Iowa

Assoc. Prof.

Eagles, B., Ph.D. Tor., B.A.  
Asst. Prof.

1 Asst.

*Horticulture*  
Clement, F. M., B.S.A. Tor., M.A.  
Wisc.\* Prof.

Barss, A. F., A.B. Roch., B.S.Agr.  
Corn., M.S. Oreg. Ag. Coll.

Prof.

Buck, F. E., B.S.A. McG.	<i>Poultry Husbandry</i>
Assoc. Prof.	Lloyd, E. A., B.S.A. Sask., M.S.A.
	Wash. S.C. Prof.
Harris, G. H., B.S.A., M.S. Oreg.	Asmudson, V. S., B.S.A. Sask.,
S.C., Ph.D. Calif.	M.S.A. Corn. Assoc. Prof.
Asst. Prof.	2 Assts.

## AFFILIATED COLLEGES

VICTORIA COLLEGE, Victoria. Affiliated, 1920, for 1st and 2nd years in Arts. Principal—P. H. Elliott, M.Sc. McG., Assoc. Prof. of *Science*; E. Stanley Farr, B.A., LL.B. Tor., Asst. to Principal, Asst. Prof. of *History* and *Econ.* Other Profs.—J. Marr, M.A. Aber., Registrar, Asst. Prof. of *Classics*; Jeanette A. Cann, B.L. Dal., Asst. Prof. of *Engl.* and *Philos.*; H. Ruth Humphrey, B.A. Mt. All., B.A. Ox., Instr. in *English*; Mme. E. Sanderson-Mongin, Officier d'Acad., Asst. Prof. of *French*; J. A. Cunningham, B.A. (Qu.), Asst. Prof. of *Biol.*; W. H. Gage, M.A., Asst. Prof. of *Maths.*

UNION COLLEGE OF BRITISH COLUMBIA, Vancouver (United Church of Canada)—Registrar, Rev. R. B. Y. Scott, M.A., B.D., Ph.D.; Principal, Rev. J. G. Brown, M.A., D.D.; and THE ANGLICAN THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver—Rev. W. H. Vance, M.A., D.D.; Registrar, Rev. C. H. Shortt, M.A., both affiliated in 1922.

## GENERAL INFORMATION

Telegraphic Address—UBRICO.

The University of British Columbia was incorporated by an Act of 1908. For early history, see *Year Book* for 1929. The University site consists of 548 acres on the headland of Point Grey, 300 feet above the sea. Here a group of buildings constructed at a cost of nearly \$2,000,000 was opened in Oct. 1925.

The Board of Governors consists of the Chancellor, elected by Convocation, President, and 9 nominees of the Lieut.-Govr. in Council. The Senate consists of the Minister of Educn., Chancellor, President (as Chairman), Deans, and 2 Profs. of each Faculty, 3 nominees of the Lieut.-Govr. in Council, Supt. of Educn., principals of normal schools, one member elected by high school principals and assts., one by Provl. Teachers' Inst., one by each affiliated Coll. or School in the Province, 15 by Convocation.

The Univ. is an integral part of the public educational system of the Province, and its function is to complete the work begun in the public and high schools. It is the policy of the Univ. to promote education in general and, in particular, to serve its constituency through three channels—teaching, research, and extension work. It furnishes instruction in the various branches of a liberal education, and in those technical departments which are most directly related to the life and industries of the Province. The people of the Province are informed of the results of special work by the staff of the Univ. through extension lectures. Lecturers are sent to various parts of the Province during the examination weeks in Dec. and April. In places which can be visited without prejudice to the duties of the lecturer at the Univ., lectures are arranged to take place during term.

The LIBRARY has 72,000 vols. and over 10,000 pamphlets, and regularly receives 500 periodicals. LABORATORIES available for all courses. A Forest Products Lab. (with two Olsen Universal Testing Machines of 200,000 and 30,000 lb. capacity respectively and one Hatt-Turner Impact Testing Machine) was established in 1918 by the Forestry branch of the Dept. of the Interior as a permanent branch of the F.P. Labs. of Canada. HERBARIUM,

16,000 sheets native flora, 200 water colours B.C. Fungi. BOTANICAL GARDENS, Arboretum and economic section, 5 acres.

FACULTIES. Arts and Science, Applied Science (Civil, Elec., Mech., Forest, Geological, Metallurgical, Mining, and Chemical Engineering, Chemistry, Nursing and Health), Agriculture (including Dairying and Horticulture).

PENSION SCHEME. In 1924 a contributory plan of retiring allowances for members of the teaching staff was adopted, contracts being placed with the Teachers' Insurance and Annuity Assocn. of America. The same year the Univ. was associated with the Carnegie Foundation for the Advancement of Teaching, v. p. 347.

MATRICULATION examns., Junior and Senior, are arranged by the High School and Univ. Matricn. Board of the Province, consisting of members appointed by the Dept. of Education and by the Univ. Every student is submitted to a physical examn. on entrance to the University.

DEGREE COURSES. B.A., 4 yrs. (3 from Senior Matricn.). B.A.Sc. in Applied Science, 5 yrs. (4 from 1st yr. in Arts or Senr. matricn.). B.S.A., 4 yrs. from Junr. matricn. Double course, B.A. and B.A.Sc., 6 yrs. Courses for the M.A., M.A.Sc., and M.S.A. Short courses in Agric. at the Univ. and elsewhere. 1 yr. course in Public Health for graduate nurses. Occupational course of 1 yr. in Agriculture. Evening Courses, with summer excursions, in Botany.

SUMMER SESSION. In 1922 the summer school for teachers became the summer session. Teachers and others with full Matricn. standing may pursue Univ. courses and receive credit therefor towards the B.A. degree.

FEES, inclusive, \$100-\$150 per session. Graduation, \$20.

SCHOLARSHIPS FOR GRADUATES. \$200 awardable to graduate for further studies; three of \$100, one being for Applied Science and one for Canadian History; \$1200 p.a. for 3 yrs. for study in France; one of 10,000 francs for study in France.

RESIDENCE. Board and lodging in vicinity of the College from \$40 to \$50 p.m.

UNIVERSITY EXTENSION. Numerous lectures have been given under Univ. auspices in different centres in the province, but adult education has not yet been given the status of a Department. The selection of speakers and of subjects is made by a Standing Committee on Univ. Extension, which provides series of connected lectures throughout the winter. Short courses of 4 days' duration have been conducted for a number of years with marked success. Present indications are that 3-yr. tutorial classes will not be organized in the Univ. for some time. The *Vancouver Institute* co-ordinates efforts of various organizations in the field of adult education.

PUBLICATIONS. *Calendar* (April); Agricultural Bulletins, Summer Session Announcement.

## THE YEAR 1928-29

STUDENTS. Full-time: total, 1730, including 109 graduates. Part-time: total, 162. Short Courses: Summer Session, 1928, 402. Agric., 138; Occup. Course (Agr.), 7; Public Health Nursing, 6; Botany, 24.

DEGREES. M.A., 15; B.A., 160; M.A.Sc., 1; B.A.Sc., 37; M.S.A., 1; B.S.A., 9.

NEW BUILDINGS, etc., at a cost of \$6418.74; Campus development at a cost of \$20,858.99.

DEATHS. Henri Chodat, M.A., Offic. d'Acad., Assoc. Prof., Mod. Lang.; S. E. Beckett, M.A., Assoc. Prof., Ec. and Sociology.

# DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—G. FRED PEARSON, LL.B.

PRESIDENT OF THE UNIVERSITY—A. STANLEY MACKENZIE, Ph.D.,  
D.C.L., LL.D.

REGISTRAR—Prof. M. MACNEILL, M.A.

LIBRARIAN—Prof. A. MACMECHAN, B.A., Ph.D., LL.D.

## PROFESSORS, LECTURERS, ETC.

### *Anatomy*

Cameron, J., M.D. Edin., D.Sc.  
St. And., M.R.C.S., F.R.S.S.E.  
and C. Campbell Prof.  
Curry, W. A., M.D., C.M. McG.,  
F.R.C.S. Eng. Demr.  
Mader, V. O., M.D., C.M. McG.  
Demr.  
Marshall, A. M., M.D., C.M. Demr.  
Gosse, N. H., M.D., C.M. Demr.  
Kinley, C. E., M.D., C.M. Demr.

### *Archæology*

Falconer, J. W., M.A. Edin., D.D.  
Knox. Lectr.

### *Biblical Literature*

Watson, W. G., B.A., D.D. Lectr.

### *Biology*

Gowanloch, J. N., B.A., B.Sc. Man.  
Bell, H. P., Ph.D. Tor., M.Sc.  
Assoc. Prof.

### *Chemistry*

McIntosh, D., A.M. Corn., D.Sc.  
McG., F.R.S.C.  
Research Prof. and Head  
of Dept.  
Nickerson, C. B., M.A. Clark Prof.  
King, H. S., A.B., Ph.D. Harv.  
Asst. Prof.  
Todd, E. W., B.A. Instr.

### *Classics*

Murray, H., B.A. Lond., LL.D.  
Tor. McLeod Prof.  
Nichols, E. W., M.A., Ph.D. Yale  
Prof.  
Griffin, A. K., M.A. Tor. and Ox.  
Assoc. Prof. (K.).  
Logan, J. W., M.A. Lectr.

### *Commerce*

Macdonald, J. M. Prof.

### *Dentistry, v. infra*

### *Economics and Sociology*

Maxwell, W. R., M.A. Harv.  
Asst. Prof. (K.).  
Prince, S. H., M.A. Tor., Ph.D.  
Col. Asst. Prof. (K.).

### *Engineering, Civil*

Copp, W. P., B.A. Ac., B.Sc. McG.,  
M.E.I.C. Prof.  
Theakston, H. R., B.Sc. (Mining),  
Nova Scotia Tech. Coll.  
Assoc. Prof.

### *English Lang. and Lit.*

MacMechan, A., B.A. Tor., Ph.D.  
J.H.U., LL.D. Tor.  
Munro Prof.  
MacFarlane, W. D., M.A. King's,  
Ph.D. Gött. Prof. (K.).

(K.) = Univ. of King's College.

\*Bennet, C. L., B.A. Camb.

Assoc. Prof. (K.).

Lowe, E. Margaret, B.A. Tor.

Lectr. (Engl. Comp.).

MacOdrum, M. M., B.A. Dal., M.A.,

Ph.D. Glas. Interim Lectr.

*Geology* [Asst. Prof

McIntosh, D. S., M.Sc. McG., B.A.

*History* [Prof.

Wilson, G. E., M.A. Qu., Ph.D. Harv.

\*Walker, A. S., M.A. Leeds and

Birm. Prof. (K.).

Jones, F. C., B.A. Bris.

Interim Lectr. (K.).

*Law, v. infra*

*Mathematics*

Macneill, M., M.A. Harv. Prof.

\*Adshead, J. G., B.A. Camb.

Lectr. (K.).

Walmsley, C., M.A. Camb.

Interim Lectr. (K.).

*Mathematical Physics*

Henderson, G. H., Ph.D. Camb.,

M.A., F.R.S.C. Prof. (K.).

*Medicine and Surgery, v. infra*

*Modern Languages*

Gantheron, René, Ag. de l'Univ.

(France) McLeod Prof.

Mercer, C. H., M.A., B.Com.

Manc. Assoc. Prof.

Dufau, L. L., Lic. ès. L. Lectr.

*Music*

Dean, H.

Lectr.

*Philosophy* [Munro Prof.

Stewart, H. L., M.A. R.U.I. and

Ox., Ph.D. R.U.I.

*Physics*

Bronson, H. L., B.A., Ph.D. Yale,

F.R.S.C. Munro Prof.

Johnstone, J. H. L., Ph.D. Yale,

M.Sc. Prof.

*Physiology and Histology*

Cruikshank, E. W. H., M.D.

Aber., D.Sc. Lond., Ph.D.

Camb., M.R.C.P. Lond. Prof.

Startup, C. W., B.Sc. Aber. Asst.

Bean, R. J., M.S. N.H.

Assoc. Prof. (*Hist. & Embry.*).

Bean, Elizabeth S., B.A. Cinn.,

M.A. Wis., Ph.D. Wis.

Instr. (*Hist. & Embry.*).

*Political Science*

MacKay, R. A., M.A. Tor., Ph.D.

Princ. Dennis Prof.

*Psychology*

Page, F. H., M.A. Tor. Lectr.

*Law*

*Bankruptcy* [Lectr.

Rutledge, J. E., B.A., LL.B.

*Bills and Notes, Equity, Pro-*

*perty, Intern. Law, Conflicts*

Read, H. E., B.A. Acad., LL.B.

Dal., LL.M. Harv. Asst. Prof.

*Constitutional Law and Pro-*

*cedure and Contracts*

Smith, S. E., M.A. King's, LL.B.

Munro Prof.

*Criminal Law* [Lectr.

Doty, I. C., B.A. Acad., LL.B.

*Evidence, Partnership, Procedure,*

*Torts*

Macdonald, A. L., B.A. St. F. X.,

LL.B. Asst. Prof.

*Hist. Engl. Law* [Lectr.

Godfrey, J. W., B.A., B.C.L. Ox.

*Insurance*

Thompson, W. E., LL.B. Lectr.

Jones, F. H. M., B.A., LL.B. Lectr.

*Mortgages*

Chipman, C. R., B.A. Acad., LL.B.

Lectr.

*Practical Statutes*

Walker, Hon. J. A., LL.B. Lectr.

*Sales*

Inglis, R. E., B.A., LL.B. Lectr.

*Shipping* [Lectr.

Burchell, C. J., M.A., LL.B., K.C.

(K.)=Univ. of King's College.

\* On leave during 1929-30.

- Medicine (for subjects of the first  
2 yrs.—Anat., etc., v. *supra*)
- Anæsthetics*  
Lessel, J. F., M.D., C.M. Demr.  
Muir, W. L., M.D., C.M. McG.  
Demr.
- Bacteriology*, v. Pathology.
- Bio-Chemistry*  
Young, E. G., B.A., M.Sc. McG.,  
Ph.D. Camb. Prof.  
Grant, G. A., M.Sc. Demr.
- Ear, Nose, and Throat*  
Doull, A. E., M.D., C.M. McG.  
Asst. Prof.
- Eye, Diseases of the, etc.*  
Mathers, R. E., M.D. N.Y. Prof.  
Cunningham, A. R., B.A., M.D.,  
C.M. Asst. Prof.  
Kirkpatrick, H. W., M.D., C.M.  
Demr.
- Schwartz, H. W., M.D., C.M. „
- Gynæcology*, v. Obst.
- Hygiene and Public Health*  
Prof. Hattie (v. Ment.) Prof.  
Forrest, W. D., B.Sc., M.D., C.M.  
Lectr.  
Maude, H. Hall Asst.
- Materia Medica*  
Burbidge, G. A., M.N.S. Phm.  
Soc. Demr.
- Medical Jurispr.*  
Prof. Woodbury (v. Dentistry)  
Demr.
- Medicine and Clin. Med.*, v. also  
Ped. and Skin.  
Silver, L. M., M.B., C.M. Edin.  
Emer. Prof.  
MacKenzie, K. A., M.D., C.M.  
Prof.  
Sieniewicz, T. M., M.D., C.M.  
Lectr.  
Johnston, S. R., M.D., C.M. Lectr.  
Churchill, J. L., M.D., C.M. McG.  
Lectr.  
Corston, J. R., B.A., M.D., C.M.  
Demr.
- Merritt, J. W., M.D., C.M. Demr.  
Rankine, J., B.A., M.D., C.M.  
Demr.
- Mental Diseases* [Prof.  
Hattie, W. H., M.D., C.M. McG.  
Lawlor, F. E., M.D., C.M. McG.  
Demr.
- Morton, A. R., M.D., C.M. Demr.
- Obst. and Dis. of Women and  
Children*  
Almon, W. B., M.D., C.M. (Obst.)  
Assoc. Prof.  
Atlee, H. B., M.D., C.M., F.R.C.S.  
Edin.  
Assoc. Prof. and Head of  
Gynæc. Dept.  
Macdonald, P. A., M.D., C.M.  
McG. (Practical O.) Demr.  
Maclellan, E. K., M.D., C.M.  
Assoc. Prof.  
Colwell, W. G., M.D., C.M.  
Demr., Pr. Gynæc.
- Pathology and Bacteriology*  
Smith, R. P., M.B., Ch.B. Glas.  
Prof.  
MacKeen, R. A. H. Asst. Prof.  
Stevenson, Mary C., M.B. Glas.  
Tech. and Demr.  
Lyons, J. N., M.D. Demr. in B.
- Pediatrics and Medicine*  
Carney, M. J., M.D., C.M. McG.,  
B.A. Asst. Prof.  
Campbell, J. G. D., M.D., C.M.  
Demr. (Ped.).  
Wiswell, G. B., M.D., C.M.  
Demr. (Ped.).
- Pharmacology* [Prof.  
Gibbs, Owen S., M.B., Ch.B. Edin.
- Psychiatry*  
Marshall, C. S., M.D., C.M. Lectr.
- Radiology*  
Johnston, S. R., M.D., C.M.  
Demr.
- Skin Diseases and Medicine*  
Mack, F. G., M.B., C.M. Tor.  
(Demr. in Urology)  
Asst. Prof.

*Surgery and Clin. Surg.*  
Hogan, E. V., C.B.E., M.D., C.M.  
McG., M.R.C.S. Eng.,  
L.R.C.P. Lond.

Prof. and Head of Dept.  
Murphy, G. H., M.D., C.M. (Clin.  
S.) Prof.

McDonald, H. K., M.D., C.M.  
McG. (Clin.) Prof.

Stewart, J., M.B., C.M., LL.D.  
Edin. (Surg.)\* Prof.

Weatherbe, P., M.B., Ch.B. Edin.  
(Op. Surg.) Demr.

McDougall, J. G., M.D., C.M.  
McG. (Clin.) Prof.

Curry, W. A., M.D., C.M., F.R.C.S.  
Eng. Asst. Prof.

Burris, M. G., B.A., M.D., C.M.  
Demr.

Gosse, N. H., M.D., C.M. Demr.

Kinley, C. E., M.D., C.M. Demr.

O'Brien, H. D., B.A., M.D., C.M.  
Demr.

MacDonald, D. J., M.D., C.M.  
McG. Demr.

Acker, T. B., M.D., C.M. Demr.

Graham, J. V., M.D., C.M. Demr.

Lyons, J. N., M.D., C.M. Demr.

*Therapeutics* [Lectr.  
Corston, J. R., B.A., M.D., C.M.

#### Dentistry

*D. Anatomy*  
Ritchie, S. G., B.A. N. Brun.,  
D.M.D., T.D.C. Prof.

*Crown and Bridge Work, etc.*  
Oxner, W. C., D.D.S., B.C.D.S.  
Prof.

Faulkner, A. W., D.D.S. Lectr.

*Dentistry*  
Bagnall, J. S., D.D.S. Assoc. Prof.

*Drawing, Modelling, and Metal-  
craft*  
Brodie, Margaret Instr.

*Exodontia and Radiology* [Lectr.  
Hennigar, G. R., D.D.S., B.C.D.S.

*Genl. and Oral Surg. and  
Anæsth.*

Woodbury, F. V., M.D., C.M. Dal.,  
L.R.C.S. and L.R.C.P. Edin.,  
L.F.P.S. Glas. Prof.

*History, Ethics, and Jurispr.*  
Crosby, H. S., D.D.S. Lectr.

*Hygiene, Preventive and Clinical  
Dentistry* [Prof.  
Thomson, G. K., D.D.S., P.D.C.

*Materia Medica*  
Woodbury, K. F., D.D.S. Lectr.

*Metallurgy*  
Logan, G. M., D.D.S. Demr.

*Operative D.* [Prof.  
Beckwith, W. H. H., D.D.S. Penn.  
Chudleigh, D. G. A., D.D.S.,  
B.C.D.S. Lectr.

*Orthodontia*  
Woodbury, W. W., B.Sc., D.D.S.,  
P.D.C. Prof.

*D. Pathology and Therap.*  
Cogswell, A. W., M.D., C.M. Hfx.,  
M.C., D.D.S. Penn. Prof.

*Prosthetic D.*  
Ritchie, S. G., B.A., N.B., D.M.D.,  
T.D.C. Prof.

Bagnall, J. S., D.D.S. Assoc. Prof.  
Climo, C. B., D.D.S. Dal. Lectr.  
Gardner, O. Tech.

*Pre-school Age Clinic*  
Dawson, W. G., D.D.S.  
Opr. & Demr.

\* Dean of Faculty.

## ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, v. *infra*.

PINE HILL DIVINITY HALL, Halifax. Classes and exams. in Hebrew and in New Testament Greek at the College are recognized as qualifying for the B.A. Students may complete the Div. course at the Coll. and take the B.A.

in 6 yrs. Confers the degree B.D. Principal, Rev. Clarence MacKinnon, M.A., D.D., LL.D. Other Profs.: J. W. Falconer, D.D.; W. G. Watson, D.D.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certifs. of the Coll. enter the 1st, 2nd, or 3rd yr. of the B.A. course. Principal, S. N. Robertson, M.A., LL.D.

HALIFAX CONSERVATORY OF MUSIC. Courses recognized for Mus.B. and Lic.Mus. Director, H. Dean.

HALIFAX LADIES' COLLEGE. The teaching in Household Science is recognized as part of the qualification for the Univ. diploma in that department. Principal, Miss F. E. Blackwood, B.A.

MARITIME COLLEGE OF PHARMACY. Courses recognized for B.Sc. Dean, G. A. Burbidge.

BIOLOGICAL BOARD OF CANADA. Classes in Fisheries. School recognized for B.Sc.

CONVENT OF THE SACRED HEART (Mother Superior, Madame Murphy) AND MOUNT ST. VINCENT ACADEMY (Mother Superior, Mother Louise). Recognized for Advanced Standing in 1st and 2nd years in Arts.

## GENERAL INFORMATION

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ. powers. For early history, see *Year Book* for 1929.

Appointments to the Board of Governors are made by the Govr.-in-Council on the nomination of the Board or on the nomination, with the approval of the Board, of individuals or bodies supporting chairs.

LIBRARIES. 55,000 vols. and 10,000 pamphlets. Access also to Science Library—61,000 vols. and pamphlets; Legislative—24,000 vols.; Theol.—11,000; Law—18,000. MUSEUMS: Ornith., Geol., Indian antiquities. Access to Provincial Museum of Geol., Mineral., Zool. LABORATORIES: Chem., Physical, Geol., Engin., Biol., Bio-Chem., Physiol., Histol., Pharm., Psychol.

FACULTIES. Arts and Science (including Commerce, Music, Pharmacy, Fisheries, and Engineering); Law; Medicine; Dentistry.

MATRICULATION requirements are articulated to the High School system of the Province which covers the last 4 years of the Public School 12-year course. The compulsory subjects for admission to the B.A. and LL.B. courses are (1) English, (2) Maths., (3) Latin or Greek, (4) another foreign language, (5) History (British or Ancient), Physics, or Chem.; B.Sc. and B.Com.—(1), (2), (5), two foreign languages; B.Mus.—(1), (2), (5), French, German; M.D., C.M.—(1), (2), (4), Latin, Brit. Hist., Phys., Chem.; D.D.S.—(1), (2), Phys., Chem., Latin, Brit. Hist.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Com.; 3 yrs.—LL.B., Mus.B.; 4 yrs.—D.D.S.; 5 yrs.—M.D., C.M. (taken together); 4 yrs. (following 4 yrs. practical experience)—B.Sc. (Phm.); the first 2 yrs. of the Engin. course (v. p. 347). The M.D., C.M., and D.D.S. can be reached by concurrent courses in 8 yrs. The M.A. or M.Sc. is given on successful completion of an approved 1-yr. course of study by a B.A. or B.Sc., respectively, of an approved Univ. The course may be pursued by graduates of Dalhousie wholly or in part by private reading, attendance at the Univ. being optional for them.

DIPLOMA course for the Lic.Mus.—2 yrs. Music and Pharmacy courses are taken in the Affiliated Institutions, v. *supra*. A 6 mos.' course of training for Pub. Health work for trained nurses is provided.

**FEES.** For tuition, for each class (ex. lab. or draughting-room), \$22.50; lab. or draughting-room class, \$30. Composition for tuition in Law, \$175 p.a.; Med., \$225 p.a.; Dent., \$200 p.a.

**SCHOLARSHIPS FOR GRADUATES.** \$250 in Polit. Sc. for study in another Univ. **LOAN FUNDS** for students have been instituted.

**RESIDENCE.** Hostel for 100 women students, erected at a cost of \$400,000. Dormitories are provided also for men students.

**PUBLICATIONS.** *Calendar* (July); *Annual Report* (Sept.); *Gazette*, \$1; *Dalhousie Review*, quarterly. For description and photogravures of buildings, see *Jour. Royal Arch. Inst. of Can.*, Jan.-Feb. 1926.

## THE YEAR 1928-29

**BENEFACTIONS.** \$70,000 residue of Mrs. E. B. Eddy's estate; \$4000 for Rev. G. Patterson, D.D., Travelling Libraries.

**EXTRA-MURAL WORK.** Series of lectures in Halifax and in cities and towns of maritime provinces.

**RETIREMENT.** J. E. Read, Dean of Law, to become Legal Adviser to Dept. of External Affairs, Canada.

**NEW DEVELOPMENT.** In 1928 the University, with the co-operation of the Biological Board of Canada, established a course leading to the degree of B.Sc. (Fisheries) for the training of scientific men for the advancement of the fishing industry. The general cultural classes and the purely scientific subjects will be given by the staff of the faculties of Arts and Science and Medicine. The classes in the technical operations of the fisheries will be given by the staff of the Biological Board at the Atlantic Experimental Fisheries Station on the harbour front. The Dominion Government is providing a special clean sea-water station at the mouth of the harbour for class and research work in Marine Biology.

**HONORARY DEGREES.** LL.D.—Walter W. Chipman, Henry M. Mackay, Finlay MacMillan, Alexander Primrose, George D. Stewart.

**STUDENTS.** Full-time: total, 869; graduates, 8.

**DEGREES.** B.A., 78; M.A., 6; B.Sc., 15; M.Sc., 2; B.Com., 8; LL.B., 18; M.D., C.M., 26; D.D.S., 7, L.Mus., 1; Dipl. in Eng., 13; Dipl. in Pharm., 3.

## UNIVERSITY OF KING'S COLLEGE, HALIFAX, NOVA SCOTIA

(Associated with Dalhousie University.)

**PATRON—THE ARCHBISHOP OF CANTERBURY.**

**VISITOR AND CHAIRMAN OF THE BOARD OF GOVERNORS—THE ARCHBISHOP OF NOVA SCOTIA.**

**VICE-CHAIRMAN OF THE BOARD OF GOVERNORS—THE BISHOP OF FREDERICTON.**

**PRESIDENT—Rev. ARTHUR H. MOORE, M.A., D.C.L. (Lennox), D.D.**

REGISTRAR—T. H. HUNT, M.A., D.D.

BURSAR AND DEAN OF RESIDENCE—R. L. NIXON, M.Sc.

DEAN OF WOMEN—Mrs. W. F. McCURDY.

PROFESSORS AND LECTURERS: *Divinity*—Vroom, Ven. Archdeacon F. W., D.C.L. Bishop's Coll., M.A., D.D., Dean of Divinity and Librarian; Hunt, T. H., M.A., D.D., Alexandra Prof.; Hiltz, R. A., M.A., D.C.L., Lectr.; the President; Rev. A. Stanley Walker, M.A.

For *Classics, Economics, English, History, Maths., Math. Physics, Mod. Langs., and Philos.*, see Dalhousie Univ. staff list.

## GENERAL INFORMATION

*Postal Address*—King's College, Halifax, N.S.

Opened in 1789 at Windsor, N.S., the College was established with full University powers by Royal Charter in 1802. In Sept. 1923, the Univ. removed to Halifax and became associated with Dalhousie Univ. (see pp. 345, 346). The staffs in Arts of the two Univs. are combined in one faculty. The first year courses are given independently to the students of Dalhousie and of King's; but with this exception students of both institutions follow on equal terms the same courses leading to the same degrees. King's holds in abeyance her degree conferring power in Arts and Science, but retains complete control of her Divinity School as well as of her present endowments, administration of residences, etc. Under the terms of the agreement between Dalhousie and King's, the Carnegie Corporation set aside \$600,000 which was handed over to King's on Dec. 31, 1928, a sum sufficient to establish the College in Halifax, *i.e.* \$400,000, having been raised. The School of Law which was established in connexion with the College, in St. John, N.B., in 1892, was transferred to the Univ. of New Brunswick in Sept. 1923, when King's College removed to Halifax. The Univ. is governed by a Board consisting of the Bishops of the dioceses of Nova Scotia and Fredericton and the President of the Univ. *ex officio*, together with 10 members elected by the Alumni Assocn. and 8 elected by each of the diocesan Synods.

Students from the JAMAICA CHURCH THEOLOGICAL COLLEGE who, after a residence of six terms there, pass the required exams. in the subjects of the Divinity course at King's, may receive the diploma of L.S.T.

PUBLICATION. *Calendar*.

## THE YEAR 1928-29

BENEFACTIONS. \$600,000 from Carnegie Corpn., N.Y., see above.

STUDENTS. Full-time: total, 63, including 2 graduates.

# LAVAL UNIVERSITY, QUEBEC

VISITOR AND CHANCELLOR APOSTOLIC—His Eminence Cardinal R. M. ROULIAU, D.D., Rom. Archbishop of Quebec.

RECTOR—M. PH. J. FILLION, M.A., Sup. of the Seminary of Quebec.

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof. W. E. CANNON, M. ès A.

## TEACHING STAFF

<i>Anatomy, v. Med.</i>		<i>English</i>	
<i>Astronomy, Practical</i>		Cannon, W., M.A.	Prof.
Smith, A., M.A. (Dir. of Quebec Observatory)	Prof.	Belleau, Jos., LL.L.	Prof.
Benoit, B., B.A., Lic.D.	Prof.	<i>Entomology</i>	
<i>Biology, v. Med.</i>		Maheux, G., M.A., Ing.For.	Prof.
<i>Chemistry</i>		<i>Forestry</i>	
Fillion, Ph. J., M. ès A.	Prof.	Piché, G. C., M.A., Ing.For.	Prof.
<i>Chemistry, Analytical</i>		Bédard, A., M.A., Ing.For.	Prof.
Garneau, Sir G., B. ès Sc.Ap., Ing.Civ., C.L.D'H.	Prof.	<i>Forest Law</i>	
Vachon, A., M.A., Lic. Ph.	Prof.	Richard, L. A., D. en Dr.	Prof.
<i>Chemistry, Organic</i>		<i>French Language</i>	
Risi, L., D. ès Sc. Frib.	Prof.	Aubert, A.	Prof.
Cathala, J., D. ès Sc. Paris	Asst. Prof.	<i>French Literature</i>	
<i>Classics</i>		Roy, Mgr. C., L. ès L. Sorbonne, D.Ph.	Prof.
Pelletier, Mgr. F., M.A. (Greek Lit.)	Prof.	Gaillard de Champpris, H., D. ès L.	Prof.
Croissant, L., L. ès L. Sorbonne, M.A. (Greek Lang.)	Prof.	Maheux, A., M.A., L. ès L. Sorbonne	Prof. of Rhetoric.
Levesque, R., M.A., L. ès L. Sorbonne (Latin Lit.)	Prof.	Lablerté, M., M.A., L. ès L. Sorbonne	Prof. of Rhetoric
<i>Commerce, v. Law</i>		<i>Geology and Mineralogy</i>	
<i>Dentistry, v. Med.</i>		Vachon, A., M.A., L.Phil.	Prof.
<i>Economics, v. Soc.</i>		<i>Histology, v. Med.</i>	
<i>Elocution</i>		<i>History (General)</i>	
Rivard, Hon. A., M.A., D. en Dr., D. ès L., K.St.Gr.*	Prof.	Chapais, Hon. T., D.L., C.St.Gr., C.L.D'H.	Prof.
		Savard, G.	Prof.
		<i>History of the Church</i>	
		Gignac, Mgr. J., D.D.	Prof.

\* Judge of the High Court.

*History of Canada and of the Church in Canada*

Gosselin, Mgr., M.A. Prof.  
Genest, O., B. ès L. Prof.

*Law, v. infra*

*Mathematics*

Tremblay, A. Prof.  
Mercil, A., M. ès A., Ing.Civ., B. ès Sc.Ap. Prof.  
Bergeron, O., M. ès A. Prof.

*Medicine, v. infra*

*Music*

Gilbert, J. A., Mus.D. Prof.  
Talbot, R. Asst. Prof.  
Pelletier, Canon J. R. Prof.  
Laroche, E.  
Tardif, A.  
Destroismaisons, L.  
Bernier, A.  
Gagnon, H.

*Pedagogy*

..... Prof.

*Philosophy*

Déchêne, G., B.A., Lic.Ph., D.D. [Prof.  
Robert, A., M.A., L. en Econ. Prof.  
Louv., D.D.

*Physics*

Benoit, R., B.A., Lic.Ph. Prof.  
Larose, P., Ph.D. McG. Prof.

*Physiology, v. Med.*

*Social and Political Econ.*

Gregoire, J. E., LL.L., L. ès Sc. Prof.  
Louv. (S. and P.)

*Surveying*

Joncas, P., Ing.Civ., B. ès Sc.Ap., M.Can. Soc. C.E. (Building and S.) Prof.

*Theology, v. also Hist.*

Paquet, Mgr. L. A., V.G., D.Th., M.St.T.A. Prof.  
Nadeau, E., D.Th., L. en Dr. Can. Prof.  
Gariépy, Mgr. C. N., D.Th. Prof.  
Gagnon, C., D.Th. Prof.

Foy, C., Lic. en. Ph., D.Th. Prof.  
Gignac, Mgr. J., D.Th., D. en Dr. Can., Rome (Canon Law)

Vandry, F., D.D., Lic.Ph. Prof.  
Grandbois, J. E., L. en Ph., D.Th. (Holy Script. and Orient. Prof.  
Langs.)

*Zoology and Botany*

Robitaille, A., M.A. Prof.

*Law*

*Admin., Const., and Munic. L.*  
Sirois, J., D. en Dr. Prof.

*Civil L.*

Roy, F., D. en Dr., Magistrate, O.I.P. Prof.  
Gagué, J.-A., LL.L., K.C. Prof.

*Commerc. and Marit. Law*

Bernier, L. M. J. A., D. en Dr.\* Prof.  
Marchand, A., D. en Dr., Judge Superior Court Prof.  
Gravel, J., D. en Dr., K.C. Prof.

*Criminal L.*

[Prof.  
Lachance, A., L. en D., Judge Fitzpatrick, Rt. Hon. Sir Chas., G.C.M.G., D. en Dr., P.C.C. Prof.  
Taschereau, R., B. ès L., LL.L. Prof.

*History of L.*

[Prof.  
Pelland, Léo, LL.L., Lic.Ph. Prof.  
St. Laurent, L., D. en Dr., K.C.

*International L.*

Rivard, Hon. A., M.A., D. ès L., D. en Dr.\* Prof.

*Municipal L.*

[Prof.  
Prévost, J. A., D. en Dr., K.C.

*Procedure, Civil*

Pouliot, A., D. en Dr. Prof.  
Baillargeon, E., D. en Dr., K.C. Prof.  
Moreau, Lucien, B.A., LL.L. Prof.

<i>Roman L.</i>		Vaillancourt, J., M.D.	Prof.
Desrivières, E., D. en Dr.	Prof.	<i>Materia Medica</i>	
Roy, O., LL.D.	Prof.	Faucher, P. V., M.D.	Prof.
		Roy, S., M.D.	Prof.
<i>Medicine</i>		<i>Medicine, Clinical</i>	
<i>Anatomy, Descriptive</i>		Rousseau, A., M.D.	Prof.
Dagneau, C., M.D.	Prof.	<i>Mental Disease</i>	
<i>Anatomy, Pathological</i>		Brousseau, A., M.D. Paris	Prof.
Vallée, A., M.D. (Dir. of P.A. and Bact. Labs.)	Prof.	<i>Ophthalmology</i>	
<i>Anat. and Oper. Med., Pract.</i>		Pagé, J. D., M.D.	Prof.
Pâquet, A., M.D.	Prof.	<i>Ophth. and Ot. Clin., etc.</i>	
<i>Biology</i>		Coote, P., M.D.	Prof.
Paulin, A., M.D. Paris	Prof.	<i>Pathology, Ext. and Clin. Surg.</i>	
Potvin, R., M.D.	Prof.	Simard, E. T. A., M.D., O.I.P.	Prof.
<i>Dentistry</i>		<i>Pathology, General</i>	
Langlois, A., D.Dent.	Prof.	Berger, L., M.D. Stras.	Prof.
Gaudreau, S., D.Dent	Prof.	Jobin, A., M.D.	Prof.
<i>Dermatology</i>		<i>Pathology, Internal</i>	
Mayrand, R., M.D.	Prof.	Guérard, J., M.D.	Prof.
<i>Gynecology and Gyn. Clin.</i>		Fortier, E., M.D.	Prof.
Grondin, S., M.D., C.L.D'H., O.I.P.	Prof.	<i>Pediatrics, etc.</i>	
Caouette, J., M.D.	Prof.	Jobin, A., B.A., M.D.	Prof.
<i>Hygiene, Public</i>		<i>Physiol. and Chem.</i>	
Paquin, R., M.D.	Prof.	Lacroix, J. B., M.D.	Prof.
Couillard, E., M.D.	Prof.	<i>Surgery, Clinical</i>	
<i>Laryngology</i>		Dagneau, C., M.D.	Prof.
Fiset, L. J. N., M.D.	Prof.	Marois, A., M.D.	Prof.
Dussault, N. A., M.D. (Rhino-Lar., etc.)	Prof.	Simard, A., M.D.	Prof.
		<i>Therapeutics</i>	
		Lessard, A., M.D.	Prof.

## INSTITUTIONS ANNEXED OR AFFILIATED TO THE UNIVERSITY

[“Annexion” implies absolute control by the Univ. of the programmes of study and of the nomination of the staff. “Affiliation” or—in the case of an institution outside the province of Quebec—“agrégation” involves control by the Univ. of examinations.]

ÉCOLE D'ARPEMENT ET DE GÉNIE FORESTIER (Surveying and Forestry). Founded by Govt. and affiliated to the Faculty of Arts. Director, Avila Bédard, Prof. of Forestry. 11 other Profs.

ÉCOLE AGRICOLE DE STE. ANNE DE LA POCATIÈRE, affiliated. Director, Prof. N. Pelletier. 12 other Profs.

ÉCOLE SUPÉRIEURE DE CHIMIE. Affiliated to the Faculty of Arts. Director, A. Vachon. 7 other Profs.

ÉCOLE NORMALE SUPÉRIEURE. Affiliated to the Faculty of Arts. Director, Prof. F. Pelletier. 10 other Profs.

ÉCOLE DE MUSIQUE. Affiliated to the Faculty of Arts. Director, J. A. Gilbert. 6 other Profs.

ÉCOLE DE PHARMACIE. Affiliated to the Faculty of Arts. Director, ..... 4 other Profs.

ÉCOLES DE GARDE-MALADES.

ÉCOLE SUPÉRIEURE DE PHILOSOPHIE. Director, Mgr. L. A. Paquet, D.D. Rom., and 4 other Profs.

GRANDS SÉMINAIRES. (Pupils obtain the B. en Th. by passing a certain number of quarterly exams. in the Seminary.) Québec (comprising Theol. students under its jurisdiction or following its courses); Ste. Anne de la Pocatière (Coll. de Ste. Anne); Rimouski; Chicoutimi; Nicolet; Trois Rivières.

ENSEIGNEMENT SECONDAIRE, COMMERCIAL, MODERNE ET CLASSIQUE. Numerous institutions are affiliated to the Univ. under conditions providing for complete preparation for Inscription and the Baccalauréat.

## GENERAL INFORMATION

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Quebec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

LIBRARIES, 173,016 vols. MUSEUMS: Mineral., Geol., Bot., Zool., Ethnol., Relig., Paintings, Coins. LABORATORIES: Chem., Phys., Bact., Biol., Physiol.

FACULTIES. Arts (with Schools of Surveying and Forestry, Chemistry and Training for Teachers annexed), Theology, Law, Medicine.

DEGREES AND DIPLOMAS. The Univ. perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B. ès A., etc.) is not the equivalent of any of the English Degrees, but is an official certificate (recognized by the Govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, medicine or applied science. It is obtained before he leaves the affiliated Institute, Seminary or College at which he has studied. Students who reach a certain standard in both Letters and Sciences obtain the B. ès A.; those who reach this standard in either and a certain lower standard in the other obtain the B. ès L. or B. ès Sc. The course for the Licence covers 2 yrs. in Philos. (L. en Ph.) or Letters (L. ès L.); 3 yrs. in Theol. or Law (L. en Th. or Dr.). To obtain the D. en Ph. or D. en Dr. it is necessary to support successfully in public a thesis and propositions as in French Univs. The D. en Th. and D. en M. or M.D. are granted after examn.

The complete medical course formerly lasted only 4 yrs., but since Jan. 1909 has, in accordance with the regns. of the Provincial Coll. of Phys. and Surgns., been framed so as to cover 5 yrs. The Baccalauréat, however, may be taken on the completion of 2 yrs. The Doctorat gives admission to the examn. for the Diploma of M.R.C.S. Lond. Inscription in Arts is recognized as corresponding to the Prelim. examn. of the R.C.S. Lond. The examns.

for the Dipl. of Hygiéniste expert may be taken by a D. en M. after a 6 mos.' course.

The Diploma in Forestry and in Surveying implies 3 yrs.' study in the Sch. of Surveying and Forestry.

The École de Chimie provides a 4 yrs.' course leading to a Licence and to a Doctorate in Chemistry.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs., and some of those of the U.S.A.

FEES for tuition, \$100 to \$185 p.a.

SCHOLARSHIP OPEN TO GRADUATES. \$400 p.a. for 2 years.

PUBLICATIONS. *Annuaire* (July), *Canada Français*, *Literary Review*, *Enseignement secondaire*, *Pedagogic Review*, *Bulletin médical*.

## THE YEAR 1928-29

NEW AFFILIATION. Académie Commerciale.

INTERCHANGE OF TEACHERS. Two French professors lectured to the Faculty of Med.

RETIREMENTS AND DEATHS. J. R. Guay, Dir. École de Pharm. and Hon. Justice C. E. Dorion, retired; Deaths: Prof. René Fortier and Prof. Eusèbe Belleau.

HONORARY DEGREES. LL.D.—H. Exc. Paul Claudel, Joseph Zamanski, Gaston Lacour, Hon. Justice Pierre Bouffard. D.Sc.—Rev. Michael A. Ryan. M.D.—Cyrille Jeunin. D.D.—H. G. Mgr. William Duke, Rev. James A. Murphy.

STUDENTS. Full-time, 2456. Part-time, 525.

DEGREES. B. ès A., 125; B. ès Sc., 12; B. ès L., 29; M.B., 43; M.D., 32; LL.B., 4; Lic.Phil., 8; Lic.Dr., 20; Lic.Theol., 6; B.Th., 6; D.Th., 8; Diplomas in Chem., 2; Nursing, 8; Music, 126; Agric., 5; Forestry, 1.

# McGILL UNIVERSITY, MONTREAL

VISITOR—THE GOVERNOR-GENERAL OF CANADA.

PRESIDENT OF THE BOARD OF GOVERNORS AND *ex officio* CHANCELLOR—  
E. W. BEATTY, B.A., LL.D., K.C.

PRINCIPAL AND VICE-CHANCELLOR—SIR ARTHUR W. CURRIE, G.C.M.G.,  
K.C.B., LL.D.

SECRETARY AND BURSAR—A. P. S. GLASSCO, B.Sc.

REGISTRAR—J. A. NICHOLSON, M.A., LL.D.

LIBRARIAN—G. R. LOMER, M.A., Ph.D.

HON. REPRESENTATIVE IN GREAT BRITAIN—W. A. BULKELEY-EVANS,  
C.B.E., M.A., 5 Paper Buildings, Temple, London, E.C.4.

## INCORPORATED COLLEGES

MACDONALD COLLEGE, at Ste. Anne de Bellevue (about 20 miles from Montreal), including School of Agric., School for Teachers, and School of Household Science.

ROYAL VICTORIA COLLEGE, Montreal (The Women's College of the Univ.).  
Acting Warden—Mrs. Walter Vaughan, M.A.

## PROFESSORS, LECTURERS, ETC.

*Accountancy*  
Thompson, R. R., A.C.A. (Engl. & Wales) Prof.

*Agriculture, v. infra*

*Anatomy* [Prof.  
Whitnall, S. E., M.A., D.M. Ox.  
Beattie, J., M.Sc., M.D. Asst. Prof.  
MacDermot, H. E., M.D. Lectr.  
8 Demrs.

*Architecture*  
Traquair, R., M.A. (Hon.),  
F.R.I.B.A. Macdonald Prof.  
Nobbs, P. E., M.A., F.R.I.B.A.,  
A.R.C.A. (Design) Prof.  
Dyonnet, E. Spl. Instr.  
Turner, P. J., F.R.I.B.A. (Constrn.,  
etc.) Spl. Lectr.  
Chambers, F. P. Asst. Prof.  
Thomson, L. R., B.A.Sc.  
Spl. Lectr.

*Bio-Chemistry*  
Collip, J. B., M.A., Ph.D., M.D.,  
D.Sc. Prof.  
Thomson, D. L., B.Sc., M.A.

Asst. Prof.  
Scott, J. W., M.D. Asst. Prof.  
Mason, E. H., Ph.B., M.D. Lectr.  
Rabinowitch, I. M., M.D. Lectr.  
2 Demrs.

*Botany*  
Lloyd, F. E., M.A. (Princeton)  
Macdonald Prof.

Scarth, G. W., M.A. Prof.  
Gibbs, R. D., B.Sc. Lectr.  
3 Demrs.

*Chemistry*  
Evans, N. N., M.A.Sc. Prof.  
Johnson, F. M. G., M.Sc., Ph.D.  
Bres., F.I.C. Prof. (Inorg. C.).  
Maass, O., M.Sc., Ph.D. Harv.  
Prof. (Physical Chem.).

- Hibbert, H., D.Sc. Manc., Ph.D. Leip.      Herriott, Jesse, B.Sc., M.A. Director for Women.
- Prof. (Industrial and Cellulose Chem.).      Harvey, F. W., B.A., M.D. Univ. Med. Off.
- Hatcher, H. W., M.Sc., Ph.D.      6 Assts.
- Assoc. Prof.      *Engineering, v. infra*
- Steacie, E. W. R., Ph.D. Lectr.      *English Lang. and Lit.*
- 10 Demrs.      McMillan, C., M.A., Ph.D. Harv. Molson Prof.
- Classics*      Latham, G. W., B.A. Harv. Assoc. Prof.
- Woodhead, W. D., B.A. Ox., M.A. Alberta, Ph.D. Chic. Prof.      Files, H. G., M.A., Ph.D. Harv. Assoc. Prof.
- Stanley, Carleton W., B.A. Tor., M.A. Ox. Prof. (Gk.).      Noad, A. S., M.A. Asst. Prof.
- Carruthers, C. H., B.A. Tor., M.A. Ox., M.A.      Mackenzie, Mary E., B.A. Lectr.
- Prof. (Class. Philol.)      6 Assts.
- Thompson, A. M., Ph.D. Harv. Assoc. Prof.      *French* [Prof.
- Seferovitch, Eliz. A., M.A. Lectr. & Tutor.\*      Du Roure, R., Agrégé France
- Smyth, J., D.D. Special Lectr. in Greek.      Furness, Lucie Touren, L. ès L. France Asst. Prof.\*
- McCullagh, P. F., B.A. Lectr.      Le Maitre, G. E. Asst. Prof.
- Commerce, v. also Acctcy., Law*      Villard, P., M.A., M.D.; O.I.P. Assoc. Prof.
- Sugars, R. M., M.A. Dir. of School; Assoc. Prof. (Spanish).      Durand-Joly, Mme. Lectr.
- Dentistry, v. infra*      d'Hauterive, L., Diplômé ès Lettres Lectr.
- Economics, v. Pol. Econ.*      *Geology* [Dawson Prof.
- Education*      O'Neill, J. J., M.Sc., Ph.D.
- Clark, F., M.A. Prof.      Clark, T. H., Ph.D. Prof.
- School for Teachers in Macdonald College:      1 Demr.
- Laird, S., M.A., B.Phil. Dean & Prof.      *German*
- Brunt, H. D., M.A., Ph.D. Lectr.      Walter, H., M.A. Edin., Ph.D. Mun. Prof.
- Lockhart, A. R. B., B.A. Lectr.      Graff, W. L., Ph.D. Asst. Prof.
- Musgrove, R. B. Lectr.      Meyer, Bertha, M.A. Lectr.
- Brownrigg, Novah E. Lectr.      *Hebrew and Semitic Langs.*
- Ramsay, Violet B. Lectr.      Brockwell, C. A. B., M.A. Prof.
- Irvine, E. C., M.A. Lectr.      Gordon, A. R., M.A., D.Litt. Aberd. Prof.
- Bellis, D. Maud Lectr.      Berger, J., M.A. Lectr.
- 1 Instr.      *Hellenistic Jewish Lit.*
- Department and School of      Abbott-Smith, G., M.A., D.D., D.C.L. Prof.
- Physical Education:      *Histology and Embryology*
- Lamb, A. S., M.D., B.P.E. Simpson, J. C., B.Sc. Prof.
- Director.      Fisk, W. M., M.D. (Histol.) Lectr.

Crowdy, C. T., M.D. Lectr.  
 Bowie, D. J., B.Sc., Ph.D. Lectr.  
 1 Demr.

### *History*

Waugh, W. T., M.A., B.D. Prof.  
 Fryer, C. E., M.A., Ph.D. Harv. Prof.  
 Adair, E. R., B.A. Lond., M.A. Assoc. Prof.  
 Camb.  
 MacDermot, T. W. L., M.A. Ox. Asst. Prof.

3 Assts.

### *Household Science*

Philp, Miss B., Head of the  
 School of H.S. in Macdonald  
 Coll.

8 Instrs.

### *Law, v. infra*

### *Library School*

Lomer, G. R., M.A., Ph.D. Director and Prof.  
 Carter, Mary D., Ph.D., B.L.S. Asst. Director and Prof.  
 Herdman, Margaret M., A.B., B.L.S. Asst. Prof.

4 Assts.

### *Logic, v. Philos.*

### *Mathematics*

Murray, D. A., Ph.D. (J. Hop.) Redpath Prof.  
 Sullivan, C. T., B.A. Dal., M.Sc., Ph.D. Chic., D.Sc. Prof.  
 Gillson, A. H. S., M.A. Camb. Assoc. Prof.

Williams, W. L. G., Ph.D. Assoc. Prof.  
 Tate, H., B.Sc., M.A. Dub. Asst. Prof.

Dodd, G. J., M.Sc. (M. and Civ. Engin.) Asst. Prof.  
 Jamieson, R. E., M.Sc. (M. and Civ. Engin.) Asst. Prof.  
 Howat, David, M.A. Lectr.

### *Medicine, v. infra*

### *Mineralogy*

Graham, R. P. D., B.A. Ox., M.Sc. [Prof.]

### *Mining, v. Engineering*

### *Music*

Clark, Douglas, B.A. Camb. Dir. of Conservatorium.  
 Whitehead, A. E., Mus.Doc. Lectr.

### *Nursing*

Harmer, Bertha, M.A., R.N. Directress of School.  
 16 Lectrs. and Instrs. (Part-time).

### *Philosophy*

[Macdonald Prof.]  
 Hendel, C. W., Ph.D. (Moral Ph.)  
 Mackay, Ira A., M.A., LL.B., Ph.D., LL.D. Prof. (Logic and Metaphysics).

### *Physics*

[Macdonald Prof.]  
 Eve, A. S., D.Sc., F.R.S.  
 Barnes, H. T., D.Sc., F.R.S. Prof.  
 King, L. V., M.A. Camb., D.Sc. Prof.  
 Shaw, A. N., B.A. Camb., D.Sc. Prof.

Keys, D. A., M.A., Ph.D. Prof.  
 Gillson, A. H. S., M.A. Camb. Assoc. Prof.  
 Reilley, H. E., B.A., M.Sc. Assoc. Prof.

Foster, J. S., Ph.D. Assoc. Prof.  
 Douglas, A. V., Ph.D. Lectr.  
 9 Demrs.

### *Physiology*

Tait, J., M.D., D.Sc. Drake Prof.  
 Babkin, B. P., M.D., D.Sc. Research Prof.  
 Giblin, N., M.B., Ch.B. Asst. Prof.  
 2 Demrs.

### *Political Economy*

Leacock, S., B.A. Tor., Ph.D. Chic., Litt.D., LL.D. Prof.  
 Hemmeon, J. C., M.A., Ph.D. Harv. Prof.  
 Day, D. J., B.A., B.Sc., Ph.D. Assoc. Prof.  
 Farthing, J. C., M.A. Asst. Prof.  
 Culliton, J., M.A. Asst. Prof.  
 Forsey, Eugene, M.A. Lectr.

### *Psychology*

Tait, W. D., B.A. Dal., Ph.D. Harv. Prof.

Kellogg, Chester E., Ph.D.

Assoc. Prof.

Bridges, J. W., Ph.D.

Prof. (Abnorm. Psychology).

Hughes, Katherine, M.B., B.Sc.

Manc., M.A. Tor. Asst. Prof.

1 Asst.

### *Social Service*

Dawson, C. A., Ph.D. Director.

Hughes, Everett C., B.A., M.D.

Asst. Prof.

10 Lectrs. (Part-time).

2 Assts.

*Spanish*, v. Commerce

*Zoology* [Strathcona Prof.

Willey, A., D.Sc., F.R.S.

Berrill, N. J., Asst. Prof.

Notkin, M., M.D. Asst. Prof.

2 Demrs.

Agriculture, School of, in  
Macdonald Coll.

### *Agricultural Economics*

Lattimer, J. E., Ph.D. Prof.

### *Agricultural Engineering*

Heimpel, L. G., B.S.A. Asst. Prof.

North, F. G., B.S.A. Lectr.

1 Asst.

### *Agronomy*

Summerby, R., M.S.A. Prof.

M'Taggart, Alex., Ph.D.

Asst. Prof.

Lods, E. A., M.Sc. Asst. Prof.

Raymond, L. C., B.S.A.

Asst. Prof.

### *Animal Husbandry*

Barton, H., B.S.A. Prof.

Ness, A. R., B.S.A. Asst. Prof.

Crampton, Earle W., M.S., B.S.A.

Asst. Prof.

Hamilton, L. H., M.S. Lectr.

### *Animal Pathology* [Asst. Prof.

Conklin, R. L., D.V.M., M.Sc.

### *Chemistry*

Snell, J. F., Ph.D. Prof.

McCarthy, J. B., B.A., D.Sc.

Asst. Prof.

McKibbin, R. R., Ph.D. Lectr.

### *Homemakers Clubs, etc.*

A Superintendent and 10 other  
Assts.

### *Horticulture*

Bunting, T. G., B.S.A. Prof.

Bemont, L. H., B.S. Lectr.

1 Asst.

### *Physics*

Quayle, W. C., M.A. Asst. Prof.

Rowles, W., M.Sc. Lectr.

### *Plant Pathology*

Brittain, W. H., M.S. in Agr.,

Ph.D. Prof.

Duporte, E. M., Ph.D. Asst. Prof.

Coulson, J. G., M.A. Asst. Prof.

1 Asst.

### *Poultry*

Maw, W. A., B.S.A. Asst. Prof.

Bemont, L. H., B.Sc. Lectr.

1 Asst.

### *English*

[Assoc. Prof.

Brunt, H. D., B.A., Ph.D.

Hodgins, S. R. N., B.S.A., B.A.

Asst. Prof.

### *Dentistry*

*Clinical Dentistry* [Prof.

..... (Dean of the Faculty)

### *Crown and Bridge Work*

Bushell, W. C., D.D.S.

### *Mat. Med., Dental Pathol., and*

### *Therapeutics*

Henry, Fred. G., D.D.S. Prof.

### *Operative D.*

Baxter, F. H. A., D.D.S. Prof.

Walsh, A. L., D.D.S. Assoc. Prof.

Leahy, W. G., D.D.S. Lectr.

### *Oral Surgery*

Henry, C. K. P., M.D. Lectr.

### *Orthodontia*

McClelland, A. W., D.D.S. Prof.

Franklin, G., D.D.S. Lectr.

### *Prosthetic D.*

Cameron, G. S., D.D.S. Prof.

Dohan, J. S., D.D.S. Prof.

### *D. Jurisprudence* [Prof.

Bond, W. L., B.A., B.C.L., K.C.

*D. Anatomy* [Asst. Prof.  
 Abraham, J. W., D.D.S. Lectr.  
*D. History, Ethics and Econ.*  
 Morris, Campbell, D.D.S. Lectr.  
*Prosthetic Treatm. of Cleft  
 Palate*  
 Martin, O. Lectr.  
 9 Demrs.

## Engineering

*Accountancy*  
 Thompson, R. R., A.G.A. England  
 and Wales, B.A. Canada  
 Prof.  
*Applied Mech. and Hydraulics*  
 Brown, E., M.Sc., M.Eng. Prof.  
*Civil Engineering*  
 Mackay, H. M., B.A., B.A.Sc.,  
 M.Am.Soc.C.E. Prof.  
 ..... Assoc. Prof.  
 Jamieson, R. E., M.Sc. Asst. Prof.  
 Dodd, G. J., M.Sc. Asst. Prof.  
 Wood, F. M., M.A., B.Sc.  
 Asst. Prof.  
 2 Assts.

*Economics*

Day, J. P., B.A., B.Sc. Lond.,  
 D.Phil. St. Andrews  
 Assoc. Prof.  
 Farthing, J. C., M.A. Ox.  
 Asst. Prof.  
 Culliton, J., M.A. Asst. Prof.  
 Forsey, Eugene, M.A. Lectr.

*Electrical Engineering*

Christie, C. V., M.A., B.Sc. Dal.  
 Prof.  
 Burr, E. G., B.Sc. Asst. Prof.  
 Wallace, G. A., M.Sc. Asst. Prof.  
 Schippel, W. H., B.Sc. Lectr.  
 3 Demrs.

*Freehand Draw. & Descr. Geom.*  
 Armstrong, H. F., M.A. (Hon.)  
 Prof.  
 3 Demrs.

*Highway and Municipal E.*  
 French, R. de L., B.Sc., C.E. Prof.  
*Law, Engineering*  
 Weldon, J. W. Lectr.

*Mechanical Engineering*  
 McKergow, C. M., M.Sc. Prof.  
 Roberts, A. R., M.Sc. Prof.  
 Thomson, L. R., B.A.Sc. Prof.  
 Coote, J. A., B.Sc. Asst. Prof.  
 Patten, R. H., B.Sc. Lectr.  
 McCurdy, L. R., B.Sc. Lectr.  
 1 Asst.

*Metallurgical Engineering*  
 Stansfeld, A., D.Sc. Lond. Prof.  
 Sproule, Gordon, M.Sc. Asst. Prof.  
 Pascoe, C. F. Spl. Lectr.  
 Roast, H. J. Lectr.  
 1 Asst.

*Mining Engineering*  
 McBride, W. G., B.Sc.  
 Macdonald Prof.  
 Bell, J. W., M.Sc. Prof.  
 Erlenborn, Willi, M.Sc. Lectr.  
 3 Research Fellows.

*Surveying and Geodesy*  
 Kelly, A. J., B.Sc. Asst. Prof.  
 Weir, James, B.Sc. Asst. Prof.  
 1 Demr.

## Law

*Civil Law*  
 Howard, Hon. Justice E. E., B.A.,  
 B.C.L., K.C. Prof.  
 Chipman, W. F., B.A., B.C.L.,  
 K.C. Prof.  
 Le Mesurier, C. S., B.A., B.C.L.,  
 K.C. Prof.

*Civil Procedure*  
 Surveyer, Hon. Justice E. F.,  
 B.A. Laval, B.C.L. Prof.  
 Tyndale, O. S., M.A., B.C.L. Prof.

*Commercial Law*  
 Bruneau, A. S., B.A., B.C.L.  
 (School of Commerce) Lectr.  
 Mathewson, J. A., B.A., B.C.L.  
 Lectr.  
 Nicholson, W. C., B.A., B.C.L.  
 Lectr.  
 Claxton, B., B.C.L. Lectr.

*Constitutional and Federal Law*  
 Scott, F. R., B.A., B.Litt. Ox.,  
 B.C.L. Assoc. Prof.

*Criminal Law*

Surveyer, Hon. Justice E. F., B.A.  
Laval, B.C.L. Prof.

*Ethics, Legal*

[Prof.  
Mignault, P. B., LL.D. Laval, K.C.

*Evidence*

[Prof.  
Wainwright, A., B.A., B.C.L., K.C.

*Law of Insurance*

[Lectr.  
Claxton, Brooke, B.A., B.C.L.

*Internat. Law, Private*

McDougall, G. W., B.A., B.C.L.,  
K.C. Prof.

*Roman Law*

[Dean and Prof.  
Corbett, P. E., B.A. (Jurispr.) Ox.

Medicine (for subjects of first 2  
yrs.—Anat., etc., v. *supra*)

*Bacteriology*

Harrison, F. C., D.Sc. Prof.  
Bruère, A. A., M.D. Edin. (B. and  
Clin. Med.) Asst. Prof.  
Beattie, W. W., B.A., M.D. Lectr.

*Dermatology*

Burnett, P., M.D. Lectr.  
Burgess, J. F., M.D. Lectr.  
1 Demr.

*Gynæcology and Obst.*

Little, H. M., B.A., M.D. Clinical Prof.  
Goodall, J. R., O.B.E., B.A., M.D.,  
D.Sc. Clinical Prof.  
Duncan, J. W., M.D. Clinical Prof.

Burgess, H. C., M.D. Clinical Prof.  
Fraser, J. R., M.D. Clinical Prof.  
Patrick, D., M.D. Lectr.  
Bauld, W. A. G., M.D. Lectr.  
5 Demrs.

*History of Medicine*

Macphail, Sir A., B.A., M.D. Prof.

*Med., v. also Bact., Ped.*

Meakins, J. C., M.D. Prof.  
Martin, C. F., B.A., M.D. Prof.  
Howard, C. P., B.A., M.D. Prof.  
Hamilton, W. F., M.D. Prof.  
Gordon, A. H., M.D. Assoc. Prof.

Peters, C. A., D.S.O., M.D.

Asst. Prof.

Mason, E. H., M.D. Asst. Prof.

Abbott, Maude E., B.A., M.D.

Asst. Prof. of Med. Re-  
search.

Rabinowitch, I. M., M.D.

Asst. Prof.

Browne, J. G., B.A., M.D. Lectr.

Kaufmann, J., M.D. Lectr.

Byers, J. R., M.D. Lectr.

Long, C. N. H., M.Sc. Lectr.

Lewis, D. S., B.A., M.D. Lectr.

Wylde, C. F., M.D. Lectr.

Moffatt, C. F., M.D. Lectr.

Campbell, D. G., B.A., M.D.

Lectr.

M'Cordick, A. H., M.D. Lectr.

26 Demrs. and Asst. Demrs.

*Neurology, Clin.*

Russel, C. K., B.A., M.D. Clinical

Mackay, F. H., B.A. Profs.

1 Demr.

*Ophthalmology, v. also Bact.*

Byers, W. G. M., M.D., D.Sc. Prof.

Mathewson, G. H., B.A., M.D.

Clinical Prof.

Tooke, F. T., B.A., M.D. Lectr.

McKee, S. H., B.A., M.D. Lectr.

6 Demrs. and Asst. Demrs.

*Oto-Laryngology*

Birkett, H. S., C.B., M.D. Prof.

White, E. H., B.A., M.D. Lectr.

7 Demrs. and Asst. Demrs.

*Pathology*

Oertel, H., M.D. Strathcona Prof.

Rhea, L. J., B.Sc., M.D.

Assoc. Prof.

Chase, W. H., M.D. Lectr.

Waugh, T. R., M.A., M.D.

Asst. Prof.

Young, A. W., M.D. Lectr.

4 Demrs.

*Pediatrics*

Cushing, H. B., M.D.

Clinical Prof.

Chandler, A. B., M.D. Lectr.

Ross, S. Graham, B.A., M.D.	Lectr.	Jones, F. B., M.D., D.P.H.	Asst. Prof.
Lindsay, L., M.D.	Lectr.	Mitchell, W. T. B., M.B.	Asst. Prof.
Struthers, R. R., B.A., M.D.	Lectr.	Pedley, F. G., B.A., M.D.	Lectr.
Goldbloom, A., B.A., M.D.	Lectr.	1 Demr.	
Wright, H. P., M.D.	Lectr.	<i>Surgery</i>	[Prof.]
3 Demrs. and Asst. Demrs.		Archibald, E. W., B.A., M.D.	Prof.
<i>Pharmacy</i>		Bazin, A. T., M.D.	Assoc. Prof.
Moore, A. B. J., Ph.G.	Hd. of Dept., Prof.	Eberts, E. M., M.D., M.R.C.S. Eng.	Asst. Prof.
<i>Pharmacology</i>		Barlow, W. L., B.A., M.D.	Asst. Prof.
Stehle, R. L., M.A., Ph.D.	Prof.	Keenan, C. B., M.D.	Asst. Prof.
Lewis, D. S., B.A., M.D.	Asst. Prof.	Henry, C. K. P., M.D.	Asst. Prof.
Dreyer, N. B., M.A., M.D.,	Asst. Prof.	Patch, F. S., B.A., M.D. (Urology)	Prof.
M.R.C.S.	Asst. Prof.	Mackenzie, D. W., B.A., M.D.	Prof.
Bourne, W., M.D.	Lectr.	(Urology)	Prof.
Campbell, D. G., B.A., M.D.	Lectr.	Turner, W. G., B.A., M.D., M.R.C.S.	Prof.
Harvey, F. W., M.D.	Lectr.	Eng. (Orthop. Surg.)	Prof.
Browne, J. G., M.D.	Lectr.	Penfield, W. G., Litt.B., B.Sc.,	Clinical Prof.
2 Demrs.		M.A., M.D.	Clinical Prof.
<i>Psychiatry</i>	[Clinical Prof.]	Nutter, J. A., B.A., M.D.	Clinical Prof. (Orthop. Surg.).
Porteous, C. A., M.D.	Asst. Prof.	Howell, W. B., M.D. (Anæsthesia)	Lectr.
Slight, D., M.B., Ch.B., D.P.M.	Lectr.	Scrimger, F. A. C., B.A., M.D.	Lectr.
Hincks, C. M., M.D.	Lectr.	Tees, F. J., B.A., M.D.	Lectr.
Young, A. W., M.D.	Lectr.	McKenty, F. E., M.D.	Lectr.
4 Demrs.		Gurd, F. B., B.A., M.D.	Lectr.
<i>Public Health and Prev. Med.</i>		Cone, W. V., B.S., M.D.	Lectr.
Fleming, A. G., M.B., D.P.H.	Prof. and Director.	Powell, R. E., B.A., M.D. (Urology)	Lectr.
Starkey, T. A., M.B., D.Ph.,	L.R.C.P. Lond., M.R.C.S.	Patterson, W. J., B.A., M.D.	Lectr. (Orthop. Surg.).
Eng., M.D., C.M.	Strathcona Prof.	20 Demrs. and Asst. Demrs.	
McDonald, R. St. J., B.A., M.D.,	D.P.H.	<i>School for Graduate Nurses</i>	
Asst. Prof.		Harmer, Bertha, M.A. Directress.	

## AFFILIATED INSTITUTIONS

ACADIA, ALBERTA, MT. ALLISON, AND ST. FRANCIS XAVIER UNIVS. Students who have completed the 2-yr. course in Engin. of these Univs. are admitted directly to the 3rd yr. in McGill Engin. courses.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to the 3rd yr. in McGill Engin. courses. Graduates and students of the Mechanical Science course of CAMBRIDGE are admitted to advanced standing in the Faculty of Appl. Sc. Particulars obtainable from the Dean of the Faculty.

TRURO AGRICULTURAL COLLEGE. Students who have completed the 2-yr. course of study are admitted to the 3rd yr. in the Faculty of Agriculture at Macdonald College.

## THEOLOGICAL COLLEGES

DIOCESAN COLLEGE OF MONTREAL. Principal, G. Abbott-Smith, M.A., D.D., D.C.L.

PRESBYTERIAN COLLEGE, MONTREAL. Principal, F. Scott McKenzie, M.A.

UNITED THEOLOGICAL COLLEGE, MONTREAL. Principal, J. Smyth, B.A., D.D., LL.D.

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

## GENERAL INFORMATION

Established in 1821 by Royal Charter. For early history and constitution, see *Year Book* for 1929. Income from Investments, about \$1,100,000.

SPECIAL FEATURES. The provision for instruction and research in Applied Science is exceptionally ample, especially in Engin. in all its branches. The Med. School also is exceptionally strong.

LIBRARIES, 300,000 vols. (Medical, 38,000; large Ophth. Dept.) and 35,000 pamphlets; Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1600; E. S. Wood Library of Ornithology; Blackader Library of Archit.; Blacker Library of Zool.; Travelling Library; Gest Chinese Research Library; Osler Library (8000 vols.) v. *infra*. LABORATORIES: Chemistry, Physics, Zool., Bot., Physiol., Psych. Research, Agric. Research. FARM, Live Stock and Grain, 786 acres. ASTRON. OBSERVATORY. MEDICAL MUSEUM (Strathcona), said to be the finest in America; rich collection of disturbances of heart and vascular system and aneurisms. Redpath Museum (botanical, geological, and zoological collections) and the David Ross McCord Historical Museum. HOSPLS. available for clinics, general—800 beds, several special.

FACULTIES. Arts, Law, Medicine (including Pharmacy), Applied Science (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining), Agric., Dentistry, Music. The Univ. has also Schools of Commerce, Physical Educn., Graduate Nurses, Social Service, Library School, a Graduate School, and (in Macdonald Coll.) Household Science and a School for Teachers.

ADMISSION. For candidates in Great Britain an examn. is held in London in June: particulars obtainable from W. A. Bulkeley Evans, M.A., 5 Paper Buildings, Temple, London, E.C.4.

DEGREE COURSES. 3 yrs.—B.C.L., Mus.Bac.; 4 yrs.—B.Com., B.A., B.Sc., B.S.A., B.H.S. (Household Science), D.D.S.; 5 yrs.—B.Arch., M.D., C.M.

B.A. or B.Sc. (Arts) course combined with B.Com., 5 yrs.; with Appl. Sc., Dent., or Theol., 6; Med., 8.

Med. students of 4 yrs.' standing of an approved institution may be admitted to the final examn. after one full session in McG. Recent grads. of approved Univs. may qualify for examns. by advanced courses or special research.

HIGHER DEGREES. Obtainable by 1 yr. of resident graduate study at McGill, thesis and examn.—M.A., M.Sc., M.S.A.; by 3 yrs. of graduate study—Ph.D.; by valuable contribution to legal science—D.C.L.; by a composi-

tion and examn. not less than 3 yrs. after taking the Mus.Bac.—Mus.Doc.; on recommendation of Board of Grad. studies—D.Sc., D.Litt.

**DIPLOMAS.** Lic. Mus., D.P.H., Teachers', Pharmacy, Graduate Nurses', Physical Education, Social Science, Library Science.

**WINTER COURSE IN AGRICULTURE.** The Winter Course in the Faculty of Agriculture has been extended from one year to two years. This course is intended to provide a general education for boys who intend to farm, and equip them with such a technical knowledge of agriculture as will enable them to deal with the problems arising in connexion with their work. The work is so arranged that students may choose subjects that definitely relate to the type of farming in which they are most interested.

Closely connected with this extension is the "old country boy" project, under which boys from the British Islands are encouraged to take up this diploma course at Macdonald College so as to fit them for the work of farming, and every effort is made, not only to give them the theoretical education that is needed, but also the practical. Since this plan was put into effect a year or two ago forty-three boys, representing thirty English public and secondary schools, have been placed on selected farms.

**ATTENDANCE** at lectures at the Univ. or Macdonald or Affiliated Coll. is indispensable.

**FEES.** Per annual session, Arts, \$125; Appl. Sc., \$205; Med., \$250; Dent., \$210; Law, \$205; Music, \$200; Commerce, \$150; Agriculture, residents of Canada, \$50, others, \$100; M.A. or M.Sc. course, \$60; Ph.D. course, each year, \$60; Graduation fee for M.A. or M.Sc., \$20; Ph.D., \$30; D.Sc. or D.Litt., \$80; Mus.Doc., \$100.

**SCHOLARSHIPS FOR GRADUATES.** In Econ. and Polit. Sc., Allen Oliver, \$650; Montreal Manufrs. Asscn. and the Graduate Working Fellowship, \$800 each; Chem., Sterry Hunt, \$1000; Geol., Le Roy, \$700; Mining Research and Teaching Fellowships, 3 of \$750 each; Med. Research, especially Obstetrics and Gynæc., A. A. Browne Endowment, \$10,000 endowment open to grads. of any recognized Med. school; Path. Research, J. Douglas Endowment, \$25,000; any subject, J. Douglas Studentship in Pathol. for 6 yrs., value \$1250 to \$2500; "Delta Upsilon," \$950; The Moyse Travelling Scholarships, 2 of \$1500 each; Law, Macdonald Endowment, \$20,000; The New Jersey Zinc Company, \$1200; Hugh McLennan, \$1000.

**RESIDENCE.** Women, Roy. Vict. Coll.; men, Strathcona Hall (Y.M.C.A.), accommodation for 60. **PHYSICAL TRAINING** is compulsory, and students are subjected to physical examn. on entering the Univ. Board and residence in Roy. Vict. Coll., \$500 per session; in private houses, \$60 p.m. and upwards; rooms only, \$15 to \$20 p.m.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

**PUBLICATIONS.** *Calendar* (June); *Coll. Announcements* (May to July); *Annual Report* (Dec.); *McGill News*, quarterly, by Graduates' Soc.; *McGill Daily*, by students; *Lectures and Addresses*; Catalogue of Scientific Periodicals in Canadian Libraries, 1924, \$5; *McGill and its Story, 1821-1921*, by Cyrus Macmillan (London, John Lane; New York, John Lane & Co.; Toronto, Oxford Univ. Press, \$3); *A Historical Sketch of the Medical Faculty and of the Origin of McGill University*, by Dr. Maude Abbott.

## THE YEAR 1928-29

**BENEFACTIONS.** \$5000 from W. W. Colpitts, M.Sc., LL.D., for a scholarship in Civil Eng. in the Graduate School ; \$5000 to the Law Fac. by Miss Mary E. P. O'Brien, will be used for preparation and publication of treatises in English on the Civil Law of Quebec ; \$2000 from John B. Waddell, as a loan fund in the Fac. of Appl. Sci. ; \$1000 from Walter Stewart, for the Library, Macdonald Coll. ; \$1000 from Wilbur H. Cherry and Miss Anna Cherry for a prize in the Dept. of Economics.

**NEW BUILDING.** For the housing of animals and for demonstration purposes connected with the work of the Biological Building.

**NEW SCHOOLS AND DEPARTMENTS.** A Library School has been established for students who have done one yr. of Arts work ; the Dept. of Architecture has been changed into the School of Architecture ; a Dept. of Fuel Engin. has been established in the Graduate School, under Prof. Lesslie Thomson. A number of producers and important consumers of fuel will co-operate in training graduate students by facilitating study of problems in their operating plants.

**CHANGES IN REGULATIONS.** Qualification for entrance to the Fac. of Appl. Sci. changed from Junior to Senior Matric., or the completion of one yr. in Arts. Double courses have been abolished, except that a cand. for B.A. or B.Sc. degree in Arts may, at the end of his 3rd yr., enter the Fac. of Med. and, on the completion of 2 yrs. in this Fac., obtain the B.Sc. Students in Arts, intending to enter other Facs. on the minimum requirements of 1, 2, or 3 yrs. respectively, must, in their course, satisfy the requirements for an Arts degree, and at the same time take the compulsory subjects required in the professional Facs. The Graduate School is now divided into two divisions known as the Arts and Science sections, with a separate executive, the whole School being governed by a main executive, composed of the Dean and two members from each division. The course for B.Sc.Ag. has been greatly strengthened in the first 2 yrs., mainly with a view to laying a strong foundation in the principal sciences.

**EXTRA-MURAL WORK.** Extension courses in a variety of subjects are given in the afternoons and evenings for residents of Montreal and vicinity. Some prepare students for special examns., such as the First and Final examns. of the Canadian Association of Cost Accountants and the Inter. and Final examns. of the Chartered Institute of Secretaries. About forty series of lectures are offered in outside centres.

**INTERCHANGE OF STUDENTS.** David Howat was the interchange student sent to McGill, as arranged by the National Committee for the Training of Teachers in Scotland.

**THE OSLER LIBRARY.** The catalogue of the Osler Library (8000 vols.) bequeathed by the late Sir William Osler, was completed during the year by Dr. W. W. Francis, Librarian, and the Library was formally opened in Oct. 1928.

**RESIGNATIONS.** Hon. Mr. Justice R. A. E. Greenshields, Prof. of Criminal Law ; William Caldwell, D.Sc., Macdonald Prof. of Moral Phil. ; Dr. W. W. Chipman, LL.D., Prof. of Obstet. and Gynæc. ; Miss C. M. Derick, M.A., Prof. of Comp. Morph. and Genetics ; Miss Clara Lichtenstein, Assoc. Prof. of Music ; J. W. Jeakins, B.A., Asst. Registrar ; W. D. Lawrence, B.Sc., Superintending Engineer ; Regis Messac, Asst. Prof. of French ; H. C. Perrin, Mus.Doc. T.C.D., Dean of the Fac. and Prof. of Music ; W. Carless, F.R.I.B.A., Asst. Prof. of Architecture ; J. A. Bancroft, M.A., Ph.D., Prof. of Geology.

**DEATHS.** Hon. Mr. Justice John Edward Martin, B.C.L., Prof. of Commercial Law ; D. D. MacTaggart, B.A.Sc., M.D., Prof. of Medical Jurispr. ; E. S. Bieler, M.Sc., Ph.D., Asst. Prof. of Physics ; A. Mackenzie Forbes, M.D., Clin. Prof. of Orthopædic Surgery ; Hon. Sir Charles Davidson, Kt., M.A., D.C.L., LL.D., Emer. Prof. of Criminal Law ; J. Alexander Hutchison, C.B.E., M.D., L.R.C.P. & S., Emer. Prof. of Surgery ; William de Montmolin Marler, B.A., B.C.L., D.C.L., LL.D., Emer. Prof. of Civil Law ; Hon. Mr. Justice J. Emery Robidoux, D.C.L., Emer. Prof. in Law ; Francis J. Shepherd, M.D., LL.D., F.R.C.S. Edin. and Eng., Emer. Dean of the Fac. of Med. and Prof. of Anatomy.

**HONORARY DEGREES.** LL.D.—Selwyn Gwilym Blaylock, B.Sc., Gen. Manager, Consolidated Mining and Smelting Company, Trail, B.C. ; Robert Alfred Ernest Greenshields, B.A., B.C.L., Ex-Prof. of Criminal Law and Ex-Dean of the Fac. of Law, McGill Univ., and Acting Chief Justice of the Superior Court of the Province of Quebec for the District of Montreal ; Rt. Hon. William Lyon Mackenzie King, P.C., C.M.G., B.A., LL.B., LL.D., M.A. Tor., M.A., Ph.D. Harv., LL.D. Queen's, Tor., Harv., Edin., Yale, Hon. D.C.L. Ox., Prime Minister of Canada ; William Sydney Thayer, A.B., M.D., Sc.D., LL.D., Emer. Prof. of Med., Johns Hopkins Univ., and Visiting Physician Johns Hopkins Hospital.

**STUDENTS.** Full-time : total, 3191, including 148 graduates. Part-time : total, 87.

**DEGREES.** B.A., 184 ; B.Sc. in Arts, 31 ; B.Sc. in Med., 2 ; B.Sc., 57 ; B.Arch., 1 ; B.C.L., 14 ; B.S.A., 15 ; D.D.S., 12 ; B.H.S., 9 ; Mus.Bac., 3 ; M.D., C.M., 63 ; M.A., 35 ; M.Sc., 23 ; M.S.A., 1 ; Ph.D., 20 ; B.Com., 27. Diplomas : Pharmacy, 5 ; Social Science, 11 ; Graduate Nurses, 4 ; Physical Education, 16 ; Licentiate in Music, 8 ; Library School, 11 ; Public Health, 2. Certificates : In the School for Graduate Nurses, 8.

# McMASTER UNIVERSITY, TORONTO

CHANCELLOR AND PRINCIPAL—HOWARD P. WHIDDEN, B.A. Acadia,  
D.D. Dennison, LL.D., D.C.L.

REGISTRAR AND TREASURER—E. J. BENGOUGH, B.A.

LIBRARIAN—DOROTHEA M. HALLFORD, B.A.

## PROFESSORS, LECTURERS, ETC.

*Biology* [Prof.  
Smith, R. W., B.A., Ph.D. Chic.  
Gaiser, Miss L. O., M.A. West Ont.  
Asst. Prof.

*Chemistry*  
Walker, W. O., M.A. Tor. Prof.  
*English* [Prof.  
McLay, W. S. W., M.A. Harv.,  
D.Litt. Ac., LL.D. Queen's  
Haddow, G. C., M.A. Ox. and Tor.  
Asst. Prof.

*Classics*  
Stearn, C. H., M.A. Camb. Prof.

*French*  
Briquet, P. E., B.A., Lic. Litt.  
Geneva and Paris Prof.

*Geology*  
McNairn, W. H., M.A. Tor., Ph.D.  
Tor. Prof.

*German* [Prof.  
Mueller, P. W., B.A. Tor., M.A.

*History*  
New, C. W., B.A. Tor., B.D., Ph.D.  
Chic. Prof.

*Mathematics* [Prof.  
Findlay, W., M.A., Ph.D. Chic.  
Fitch, Miss M. A., M.A. Tor., B.A.  
Spl. Lectr.

*Philosophy, Logic, and Ethics*  
Ten Broeke, J., M.A. Middlebury,  
Ph.D. Yale, LL.D. Prof.

*Physics*  
Dawes, H. F., M.A. Tor., Ph.D.  
Tor. Prof.

*Political Economy and Sociology*  
Michell, H., M.A. Ox. Prof.  
Taylor, K. W., M.A. Chic., B.A.  
Asst. Prof.

*Public Reading and Speaking*  
Kirkpatrick, F. H., Ph.D.  
Spl. Lectr.

*Theology*  
*Christian Education, Sociology,  
and Theology*  
McCrimmon, A. L., M.A. Tor.,  
LL.D. Prof.

*Church History*  
Gilmour, G. P., B.A., B.Th., M.A.  
Harv. Lectr.

*Homiletics and Pastoral Theol.*  
..... Prof.

*New Test. Interpretation* [Prof.  
Marshall, L. H., B.A., B.D. Lond.

*Hebrew and Old Testament  
Exegesis*  
Parker, N. H., B.S., Th.D., Missis-  
sippi Coll. and Southern Bapt.  
Seminary Prof.

*Missions and Evangelism*  
Orchard, M. L., B.A. New Bruns.,  
M.A. Colgate, B.D. Colg.  
Prof.

*Preliminary Course* [Spl. Lectr.  
Baker, J. J., M.A. Tor., B.D.

*Religious Education* [Spl. Lectr.  
Merrill, B. W., B.A., B.Th.

## AFFILIATED COLLEGE

BRANDON COLLEGE, Brandon, Man., controlled by Baptist Union of  
W. Canada. Affild. for courses in Arts President, J. R. C. Evans, Ph.D.  
Professors in Arts Dept. : S. J. McKee, B.A., LL.D. (Emer. Prof.) ; Maths.—

A. E. Johns, M.A.; French—Jennie M. Turnbull, M.A.; Latin and Greek—H. L. MacNeill, Ph.D., LL.D. Dean of Women—Annie E. Wright, M.A.; Chem. and Biol.—C. C. Lucas, M.A.; Geology—J. R. C. Evans, Ph.D.; Physics—H. F. Batho, S.M.; Old Test., Hebrew and Swedish—C. H. Lager, M.A., B.D.; History—J. N. Anderson, M.A.; Polit. Econ.—W. B. Hurd, M.A.; Philos.—C. F. Richards, B.Sc., B.D. (Acting Registr.); English—Ella A. Whitmore, M.A.

## GENERAL INFORMATION

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by \$900,000, received under the will of the Hon. Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs. and Lectrs. must be members of some evangelical church. Moulton Ladies' Coll., Toronto (founded in 1888), is represented on the Senate.

**LIBRARY**, 28,000 vols. **LABORATORIES**: Phys., Biol., Chem., Mineral. Science Hall has 24 lecture rooms and labs.

**DEGREE COURSES.** 4 or 5 yrs., B.A.; 3 yrs. (after completing 2 yrs. of Arts course), B.Th.; 6 yrs., combined B.A. and B.Th. The first 2 yrs. in Arts do not necessarily involve attendance at lectures. Brandon Coll. provides instruction in Swedish for immigrants from that country.

The B.A. degree is recognized by the Univ. of London.

**HIGHER DEGREES.** Open to B.A. after 1-yr. course (attendance at lectures not required)—M.A.; to B.Th. who are also B.A. and have taken 3 yrs. in Hebrew, involving 1 yr. of study after graduating as B.Th.—B.D.

**DIPLOMA.** English Theol., 3 yrs.' course.

**CERTIFICATE.** Missionary Training for women.

**ADULT EDUCATION.** For adults who have not the necessary foundation for admission to the English Theol. or Women's Missionary course, a year of literary and biblical work qualifying for such admission is provided.

**FEES.** Annually, for tuition, examn, library—Arts, \$75, Theol., \$20. For student organizations, athletics, etc., men, \$8.50, women, \$9.75.

**RESIDENCE.** Board and room per session, men, in McMaster Hall, \$240; women, in Wallingford Hall, \$284.

**PUBLICATIONS.** *Calendar* (June); *McMaster Monthly* (students' magazine); *McMaster Graduate* (pub. by Alumni Assn.), three times a year.

## THE YEAR 1928-29

**NEW BUILDINGS.** A group of five buildings is being erected on the new site in Hamilton, and the institution is to be transferred to that city in Sept. 1930.

**HONORARY DEGREES.** D.D.—A. M. McDonald, R. R. McKay. LL.D.—Hon. N. W. Rowell.

**STUDENTS.** Full-time: total, 341. Part-time: total, 96, including 38 graduates.

**DEGREES.** B.A., 55; at Brandon College, 24; M.A., 9; B.Th., 9; B.D., 1; English Course, 4.

# UNIVERSITY OF MANITOBA, WINNIPEG

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHAIRMAN OF THE BOARD OF GOVERNORS—JOHN A. MACHRAY, M.A., LL.D., K.C.

CHANCELLOR—Most Rev. S. P. MATHESON, D.D., D.C.L., LL.D., Archbishop of Rupert's Land.

VICE-CHANCELLOR—Rt. Rev. Mgr. A. A. CHERRIER, LL.D.

PRESIDENT—JAMES A. MACLEAN, Ph.D., LL.D.

REGISTRAR AND SECRETARY OF BOARD OF GOVERNORS—W. J. SPENCE, B.A.

LIBRARIAN—F. E. NUTTALL, M.A.

DEAN OF WOMEN—URSILLA N. MACDONNELL, M.A., Ph.D.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture, v. infra*

*Anatomy*, v. also Med.-Surg.

Grant, J. C. B., M.B., Ch.B., F.R.C.S. Edin. Prof.

Mainland, D., M.B., Ch.B. Edin. Asst. Prof.

Jackson, J. L., M.A. Alta., M.B. Tor. Lectr.

Hay, A. W. S., M.D. Demr.

Hollenberg, M. S., M.D. Demr.

Richardson, R. W., M.D.

Sommerville, A. N., M.D.

McCharles, C. W., M.D., C.M. Demr.  
4 Student Demrs.

### *Architecture*

Stoughton, A. A., Ph.B. Col. Prof. (on leave).

Osborne, M. S., B.Arch. Col. and Ohio State, M.Sc. (Arch.) Col. Actg. Prof.

Russell, J. A., S.B. Mass. Inst. Tech. Asst. Prof.

### *Bio-Chemistry*

Cameron, A. T., M.A., B.Sc. Edin., F.I.C. Prof.

White, F. D., Ph.D. Edin., F.I.C. Lectr.

Mar, P. G., M.Sc. Demr.

### *Botany*

Buller, A. H. R., B.Sc. Lond., D.Sc. Birm., Ph.D. Leip., LL.D. Prof.

Roberts, H. F., B.A. Kans., LL.B. N.-Wstn., M.Sc. Kans. (Agr.) Asst. Prof.

Lowe, C. W., M.Sc. Birm. Lectr.  
1 Demr. and 5 Student Assts.

### *Chemistry*

Parker, M. A., B.Sc. Glas., LL.D., F.I.C. Prof.

Armes, H. P., B.Sc. Leeds, Ph.D. Stras. Assoc. Prof.

Shipley, J. W., M.A., Ph.D. Harv. Assoc. Prof.

Hiebert, P. G., M.A. Tor., M.Sc., Ph.D. McG. Lectr.

2 Demrs. and 16 Student Assts.

### *Classics*

Clark, F. W., Ph.D. Chic., B.A. [Prof.]

Hugill, W. M., B.A. Tor. Asst. Prof. (on leave).

Johnson, S., M.A. Asst. Prof.

Westington, M. M., M.A. Tor. Temp. Lectr.

*Engineering, Civil*

Finlayson, J. N., M.Sc. McG.,  
M.E.I. Can. Prof.

Moffatt, R. W., B.A.Sc. Tor.  
Assoc. Prof.

MacDonald, A. E., M.Sc. McG.  
Asst. Prof.

Herriot, G. H., B.Sc. Qu., D.L.S.,  
M.E.I.C. Assoc. Prof.

Scott, W. M., B.A.Sc. McG.,  
M.E.I.C. Lectr.

Riddell, W. F., B.Sc. (C.E.) Lectr.  
3 Demrs.

*Engineering, Electrical*

Fetherstonhaugh, E. P., B.Sc.  
McG., M.E.I.C., Dean of Fac.  
Prof.

Dorsey, J. W., E.E. Lehigh  
Asst. Prof.

1 Demr.

*Engineering, Mechanical*

Hall, N. M., O.B.E., B.Sc. McG.,  
M.E.I.C. Prof.

*English*

Crawford, A. W., M.A. Tor., Ph.D.  
Corn. Prof.

Perry, A. J., M.A. Yale  
Assoc. Prof.

Allison, W. T., M.A. Tor., Ph.D.  
Yale Assoc. Prof.

Carver, P. L., B.A. Leeds  
Asst. Prof.

Argue, R. F., M.A.  
Lectr. (on leave).

Saunders, Doris B., M.A. Lectr.

*French*

Osborne, W. F., M.A. Tor. Prof.  
Evans, W. D., M.A. Tor.

Asst. Prof.

Ballu, Céline A., B.A. Wisc. Lectr.  
Richard, M. E. J., B.A. Alta.

Lectr.  
Jones, C. M., M.A. Wales Lectr.

*Geology and Mineralogy*

De Lury, J. S., B.A. Tor., Ph.D.  
Minn. Prof.

Kirk, S. R., B.Sc., Ph.D. St. And.  
Asst. Prof.

Brownell, G. M., M.Sc. Man., Ph.D.  
Minn. Lectr.

1 Demr. and 5 Student Assts.

*German*

Heinzelmann, J. H., B.A. Ill.,  
Ph.D. Chic. Prof.

Schoolcraft, J. T., jr., B.S. Union,  
N.Y., A.M. Col. Lectr.

Jones, Mrs. Anna C. A., B.A. Asst.

*History*

..... Prof.  
Howe, J. E., B.A. Yale, M.A.

Acad. Asst. Prof.  
Fieldhouse, H. N., M.A. Shef.

Asst. Prof.

Marshall, D. W. H., M.A., LL.B.  
Glas., B.A., B.Litt. Ox.

Asst. Prof.

MacDonnell, Mrs. U. N., M.A.,  
Ph.D. Qu. Lectr.

1 Fellow.

*Law, v. infra—Affiliated Colleges**Mathematics*

Wilson, N. R., M.A. Tor., Ph.D.  
Chic. Prof.

Warren, L. A. H., M.A. Qu., Ph.D.  
Chic., F.R.A.S. Prof.

Tier, W., M.A. Tor., Dean of Fac.  
of Arts Prof.

Milne, T. H., M.A. Tor. Asst. Prof.  
Lawson, J. W., B.A. Lectr.

1 Fellow.

*Pharmacy*

[Prof.  
Bletcher, H. E., B.Sc. (Phar.)  
M'Dougall, D., M.Sc. Lectr.

*Philosophy*

[Prof.  
Wright, H. W., B.A., Ph.D. Corn.  
Lodge, R. C., M.A. Ox. Prof.

*Physics*

[Prof.  
Allen, Frank, M.A. N. Bruns. &  
Corn., Ph.D. Corn., LL.D.

McClung, R. K., B.A. Camb., M.A.,  
D.Sc. McG. Asst. Prof.

Young, J. F. T., M.A. Tor., Ph.D.  
Tor. Asst. Prof.

Anderson, W. A., B.A., M.Sc.

Lectr.

3 Demrs. and 6 Student Assts.

*Physiology, v. Medicine*

*Political Economy*

Clark, A. B., M.A. Edin. Prof.

Jones, R. F., M.A. Liv. Asst. Prof.

Waines, W. J., M.A. Lectr.

*Zoology*

Wardle, R. A., M.Sc. Manc. Prof.

Riley, C. F. C., M.A. Doane, B.S.

Mich., M.S. Ill. Asst. Prof.

Neave, F., M.Sc. Manc. Lectr.

3 Demrs. and 1 Student Asst.

*Agriculture*

[at Manitoba Agricultural College]

McKillican, W. C., B.S.A. Tor.

Dean.

*Agricultural Engineering*

Shanks, G. L., B.S.A. Prof.

*Agronomy*

Harrison, T. J., B.S.A. Prof.

Ellis, J. H., B.S.A., M.S. Minn.

Assoc. Prof.

Elders, A. T., M.S. Minn., B.S.A.

Asst. Prof.

*Animal Husbandry*

Wood, G. W., B.S.A. McG., M.S.

Wisc. Prof.

Brown, J. M., B.S.A. Tor.

Assoc. Prof. (on leave).

Sommerfeld, H. B., M.S. Wisc.,

B.S.A. Sask. Asst. Prof.

Davies, W. D., B.S.A.

Temp. Lectr.

*Animal Pathology*

Savage, Alfred, B.S.A. McG.,

D.V.M. (Corn.), M.R.C.V.S.

Prof.

*Bacteriology*

Lee, C. H., M.A. Tor. Prof.

*Biology*

Jackson, V. W., B.A. Qu., M.S.

Minn. Prof.

*Chemistry*

Geddes, W. F., B.S.A., M.A. Tor.,

M.S., Ph.D. Minn.

Prof. (Agr. Chem.).

Saunderson, H. H., B.A., B.Sc.

Temp. Lectr.

*Clothing and Textiles*

Groff, Clara Louise, B.S. Col.

Lectr.

McFadden, Eleanor G., B.S. Iowa

Lectr.

*Dairy Husbandry*

Brown, R. W., B.S.A. Tor. Prof.

James, N., B.S.A. Tor., M.S.

Iowa Asst. Prof.

*Economics, Rural* [Asst. Prof.]

Grant, H. C., B.S.A., M.A.

Lectr. (on leave).

*Education* [Lectr.]

Moxon, Mary C., Ph.B. Chic.

*English*

Sproule, G. A., B.A. Tor. Prof.

Hopper, C. R., M.A. Asst. Prof.

White, Alfred Temp. Lectr.

*Entomology*

Mitchener, A. V., B.A. McM.,

B.S.A. Tor., M.Sc. Asst. Prof.

*Home Economics*

Duncan, Mrs. L. C., Ph.B. Chic.,

M.A. Director.

Roberts, Jessie, B.A. Tor.

Temp. Lectr.

Sproule, Mrs. L., B.Sc. (H.Ec.)

Temp. Lectr.

*Horticulture and Forestry*

Brodrick, F. W., B.S.A. Tor. Prof.

*Household Art*

South, Mrs. Jean Lectr.

*Mathematics*

Goulden, C. H., M.S.A. Sask.,

Ph.D. Minn. Temp. Lectr.

*Nutrition* [Asst. Prof.]

Hiltz, Mary C., B.S. Col., M.A. Tor.

*Physical Education*

Youmans, R. W. Director.

*Physics*

Thomson, W. A., B.S.A. Sask.  
Lectr. (Phys. and Maths.).

*Plant Pathology*

Bisby, G. R., B.S. So. Dak., M.A.  
Col., Ph.D. Minn.

Prof. (on leave).

Hanna, W. F., B.A. Dal., M.Sc.  
Alta., Ph.D. Temp. Lectr.

*Poultry Husbandry*

Herner, M. C., B.S.A. Tor. Prof.  
Foster, D. C., B.S.A. Lectr.

*Sociology and Economics*

Murchie, R. W., M.A. Glas., Ph.D.  
Minn. Prof.

McEwen, W. H., B.S.A.  
Temp. Lectr.

6 Instrs. and an extension service  
staff of 10.

Medicine (for subjects of first 2  
yrs.—Anat., etc., v. *supra*)

*Bacteriology and Hygiene*

Douglas, A. J., B.A., M.D., C.M.  
(Hygiene) Prof.

Cadham, F. T., B.A., M.D. (B. and  
Serology) Prof.

Fraser, M. S., B.A., M.D., C.M.  
(Hygiene) Lectr.

McCowan, W. P., B.A., M.B.  
Lectr. (Bact.).

2 Instrs.

*Gynæcology and Obstetrics*

Mackay, D. S., O.B.E., M.D.,  
C.M., F.R.C.S. Edin.,  
F.A.C.S. Prof.

McQueen, J. D., D.S.O., M.D.,  
C.M., F.A.C.S. Assoc. Prof.

Bjornson, O., M.D., C.M., F.A.C.S.  
Prof. (Obs.).

Mitchell, R. B., B.A., M.D., C.M.,  
F.A.C.S. Assoc. Prof. (Obs.).

McGuinness, F. G., M.D.  
Asst. Prof. (Obs.).

*Lectrs. in Gynæcology:*

Gorrell, J. A., B.A., M.D., C.M.

Rice, C. R., M.D., C.M.

*Lectrs. in Obstet.:*

Coulter, J. E., M.D., C.M.,  
F.A.C.S.

Campbell, W. G., M.D., C.M.

Abbott, W. F., M.C., B.A., M.D.,  
C.M.

Arthur, C. L. T., M.D.

Kobrinisky, S., M.D.

*Hygiene, v. Bacteriology**Laryngology and Otology*

Prowse, S. W., B.A., M.D. Edin.,  
F.R.C.S. Edin., F.A.C.S.,  
Dean of Fac. Prof.

Fletcher, G. W., M.D., F.A.C.S.  
Assoc. Prof.

Leishman, A., M.D. Assoc. Prof.

Washington, E. J., M.D.  
Assoc. Prof.

Black, R., M.D. Lectr. (Otol.).

Magee, R. C. E., B.A., M.D.  
Lectr. (Otol.).

*Medicine and Clinical Medicine*

Gilmour, C. R., M.D., C.M. Prof.  
Assoc. Profs. of Med.:

Burridge, A. J., M.D., F.A.C.P.  
(Therap.).

Davidson, J. R., B.A., M.D., C.M.

Hart, F., M.D., C.M., M.R.C.S.,  
L.R.C.P.

Hunter, C., M.A., M.D., M.R.C.P.  
Lond.

Moorhead, E. S., M.B., B.Ch. Dub.

Rorke, R. F., M.D., C.M. (Pædia-  
trics).

Stewart, D. A., B.A., M.D., LL.D.

Mathers, A. T., M.D., C.M. (Psy-  
chiatry).

Adamson, J. D., M.D.

*Asst. Profs. of Med.:*

Alexander, A. B., B.A., M.D.

Warner, N. W., M.D.

Mackay, H., M.D., C.M. (Dermato-  
logy).

*Lectrs. in Med.:*

Benner, F., M.D., C.M.

Chown, G., O.B.E., B.A., M.D.,  
C.M.

MacDonald, D. A., M.D.

McIntyre, Dougald, M.D.

Olson, B. H., B.A., M.D.

McMillan, J. C., M.D., F.A.C.P.

Lectr. in Roentgenology  
and Electro-therapy.

Davidson, A. M., M.D. (Dermatol-  
ogy).

Walker, S. B., M.R.C.P., M.R.C.S.  
(Eng.).

Hossack, J. C., M.D., C.M.

Kitchen, H. D., M.M., M.D., C.M.

Turner, F. M., M.D.

Hollenberg, A., B.A., B.Sc., M.D.

18 Demrs.

### *Medical Jurisprudence*

M'Cowan, W. P., B.A., M.B. (also  
Bact.) Lectr.

### *Ophthalmology*

Smith, W. H., M.A., M.D., C.M.,  
F.A.C.S. Prof.

Bell, T. H., M.C., M.D., C.M.,  
F.A.C.S. Assoc. Prof.

Bell, P. G., B.A., M.D., F.A.C.S.  
Assoc. Prof.

Stefansson, J., M.D. Lectr.  
1 Demr.

### *Pathology*

Boyd, W., M.D., M.R.C.P. Edin.,  
Dipl. Psych. Prof.

Nicholson, D., M.D., C.M.,  
M.R.C.P. Lond. Asst. Prof.

### *Pædiatrics, v. Medicine*

### *Physiology and Pharmacology*

Moorhouse, V. H. K., M.C., B.A.,  
M.B. Tor. Prof.

Ormerod, M. J., M.B. Asst. Prof.  
Fraser, R. H., M.D. Lectr.

3 Student Demrs.

### *Surgery and Clinical Surgery*

Brandson, B. J., B.A., M.D.,  
C.M., F.A.C.S. Prof.

Waugh, O. S., M.D., C.M., F.A.C.S.  
Asst. Director.

Assoc. Profs. of Clin. Surg. :

Campbell, A. M., B.A., M.D., C.M.

Fletcher, R. D., M.A., M.D., C.M.,  
F.A.C.S. (Urology).

Galloway, H. P. H., M.D., C.M.,  
F.A.C.S. (Orthop.).

Gibson, A., M.B., Ch.B., F.R.C.S.,  
F.R.S.E. (Orthop. ; also

Lectr. in Applied *Anatomy*).

Gunn, J. A., C.B., O.B.E., B.A.,  
M.D., F.A.C.S.

Lehmann, J. E., M.D., F.A.C.S.

Mann, W. L., B.A., M.D., C.M.

Maclean, N. J., M.D., F.A.C.S.

Webster, W., M.D., C.M. (Anæ-  
sthetics).

Asst. Profs. of Clin. Surg. :

Boardman, E. J., M.D. (Urology).

Fahrni, G. S., M.D., C.M., F.A.C.S.

Lectrs. in Clin. Surg. :

Gardner, W. A., B.A., M.D., C.M.,  
F.A.C.S. (Orthop.).

Hamilton, T. G., M.D., F.A.C.S.

McIvor, N. K., M.D., F.A.C.S.

Musgrove, W. W., M.D., C.M.,  
F.A.C.S.

Murray, A. A., M.D., F.A.C.S.  
(Orthop.).

Aikenhead, D. C., M.D.

Coad, W. E. R., M.D., C.M.,  
M.R.C.S.

MacCharles, M. R., M.D., C.M.,  
F.R.C.S. Edin.

McEachern, J. D., M.D.

McIntyre, D. F., M.D., F.A.C.S.

Secord, W. H., M.D., C.M.

Burns, C. W., B.A., M.D., C.M.,  
F.A.C.S.

Collin, L. D., B.L., M.D.

McKinnon, A. P., M.D., C.M.

Thorlakson, P. H. T., M.D., C.M.

3 Demrs. in Clin. Surg.

### *Therapeutics, v. Medicine*

**AFFILIATED COLLEGES** represented on the Council, the first four having power to confer degrees in Divinity :

ST. BONIFACE COLLEGE, St. Boniface (R.C.). Rector—Rev. J. P. Desjardins, S.J. (Building destroyed by fire, Nov. 25, 1922.)

ST. JOHN'S COLLEGE, Winnipeg (C. of E.). Warden—Rev. G. A. Wells, C.M.G., M.A.; Registrar—W. Burman, B.A.

MANITOBA COLLEGE, Winnipeg (United Ch. in Canada). Principal—John MacKay, M.A., D.D.; Registrar—Prof. J. Dick Fleming, Ph.D.

WESLEY COLLEGE, Winnipeg (United Ch. in Canada). President—J. H. Riddell, D.D., LL.D.; Registrar—A. Stewart Cummings, B.A.

MANITOBA LAW SCHOOL, Winnipeg. Chairman of Trustees—Hon. H. A. Robson, K.C., LL.D.; Dean—E. H. Coleman, LL.B.; Recorder—R. J. Russell.

## GENERAL INFORMATION

Established 1877, the Univ. was reconstituted in 1900 and 1917. For early history, see *Year Book* for 1929. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

Most of the univ. buildings at present occupy a site in the heart of the city of Winnipeg with a population, including St. Boniface, of over 300,000. The Agricultural Coll. is at Fort Garry, 7 miles distant.

UNIV. LIBRARY, 46,000 vols.; 450 periodicals received. In the Medical building is housed the library, 2000 vols. of the Manitoba C.P.S. in addition to the Med. College library of 4000 vols. The Agric. Coll. has a library of 6700 vols., and receives 142 periodicals. The Faculty of Engin. and Arch. has a departmental library of 5000 vols. LABORATORIES: Anat., Bact., Bot., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. MUSEUMS: Anat., Embry., Bot., Geol., Path. HOSPITALS available for clinics: 2 general (1000 beds) and several special, including tuberculosis. FARM on Agric. Coll. estate (676 acres).

FACULTIES. (1) An Arts and Science Faculty providing instruction in all subjects of undergraduate courses in Arts (except 5 options), Science, and Phm. (2) Medicine. (3) Engineering and Archit. (4) Agriculture and Home Economics. Other subjects of Arts course are taught in the affiliated Colls. Law is taught in the Manitoba Law School, which is under the direction of trustees jointly appointed by the Univ. and the Law Society of Manitoba.

MATRICULATION examn. is conducted in June by the Examn. Board of Manitoba, also a limited Matricn. in Sept. Matricn. subjects for Arts or Sci. courses: English, Hist., Maths., Latin or Greek or French or German; a second language or 2 of the following—Physics, Chem., Genl. Science I., Genl. Science II.; a third language or 2 sciences not already taken, or 1 science not already taken with Home Econ. or Indust. Arts or Music or Agric. or Comm. work. Exemption from examination is allowed in the subjects of Grades IX. and X. Matricn. to pupils of the Collegiate Institutes of the province, or of the Preparatory schools in connexion with the affiliated Colleges, who are recommended for such exemption by their school principals. Entrance requirements for Medicine are clear standing of two pre-medical years in Arts and Science; for Law of 2nd year in Arts, with Latin to the end, at least, of the 1st yr.; for Engineering standing of one pre-engineering year in Arts and Science, and for Architecture one year in Arts and Science. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Sc. (C.E. or E.E.), B.Sc. (Phar.), B.Arch., LL.B., B.S.A., B.Sc. (H.Ec.); 5 yrs., following 2 pre-medical yrs.—

M.D.; 5 yrs.—B.A. (Hons.), B.Sc. (Hons.) Graduates in Med. of at least 2 yrs.' standing with certain prescribed training and experience may obtain C.M. on passing written, oral, and practical examn., and presenting a satisfactory thesis.

ATTENDANCE at lectures is obligatory for all except extra-mural students. Extra-mural students are accepted, usually for a limited programme, subject to the approval of the Bd. of Studies, but may not take courses in Med., Sc., Arch., or Engin., or any course in Arts involving oral, practical, or lab. work. Extra-mural registration in Arts is limited to students resident in Manitoba, and a minimum of 1 yr.'s attendance at this or another approved Univ. is exacted before the B.A. is conferred.

A UNIT SYSTEM has been adopted in the Arts and Science Faculty, the unit being "a body of work to which is assigned for instructional purposes one hour of lecture or other class-room exercise per week or one continuous laboratory period of 2 or 3 hours per week, throughout an entire session, or the equivalent." 40 units of credit in the "Junior Division" (work normally done in first two sessions) and 32 in the Senior Pass Division (for Honours, 48 in the Senior Honours Division) are required for the degree. For the B.A.—English (2 yrs.), a foreign language (2 yrs.), Maths. (1 yr.), and History (1 yr.) are compulsory.

The M.A. may be obtained by candidates possessing the Honours B.A. of Manitoba, or an equivalent degree, by an extra year of full-time study under the direction of a committee of instructors. Candidates for the M.A. possessing the pass B.A. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. A thesis is required as well as examn.

The M.Sc. requirements are at least one yr.'s grad. work in one or more of the Sc. depts. of the Univ. (incl. Maths.) or in the dept. of Civil Engin. or that of Elect. Engin., an examn. and a thesis. Candidates for the M.Sc. possessing the pass B.Sc. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. While taking the LL.B. course a student may simultaneously obtain the Law Society's qualification for practice. An extra-mural course in Law may be taken by students residing in Manitoba elsewhere than in Winnipeg or environs, and by graduates in Arts of an approved Univ. residing elsewhere. The LL.D. is honorary.

In the B.Sc. Engineering courses summer work and thesis relating thereto are required.

2 yrs.' service in an Architect's office following graduation (B.Arch.) will qualify for licence to practise.

DIPLOMAS. Pharmaceutical Chemistry (2 yrs.' course); Agriculture (3 yrs.); Home Economics (2 yrs.). In *Dentistry* the Univ. is the sole examining body in the province. The Univ. conducts examns. for admission to the Man. Assoc. of Graduate Nurses, to the practice of *Accountancy* and membership of the Inst. C.A. of Manitoba, to the practice of *Architecture* and membership of the Man. Association of Archts.; also qualifying examns. for the Man. Civil Service.

FEES. Tuition and examn. in Arts and Sc., \$80 p.a.; Engin. and Arch., \$110; Phm. Dipl. course, \$90; Degree course (4 yrs.), \$80, \$90, \$90, \$90; Med., 1st, 2nd, 3rd, and 4th yrs., \$185, 5th yr., \$60; Law, \$108. Licence to practise Med., \$100. Agr. Dipl. course, \$28; Degree course, \$40 (1st and 2nd yrs.) and \$65 (3rd and 4th yrs.); Home Economics, Degree course, \$40, \$40, \$65, \$65.

SCHOLARSHIPS for graduates: 2 Travelling Fellowships, each \$400, offered each yr.: one to a graduate in Arts, and, in alternate years, one in Science and one in Engineering, tenable at some other seat of learning.

**RESIDENCE.** Hostels at all affiliated Arts Colls. and Agr. Coll.

**INTERCHANGE** of teachers for a few days and conference annually with Univs. of N. Dakota, Sask., and Alberta.

**UNIVERSITY EXTENSION.** (1) Winter Evening Business courses in Acctcy., Comml. Law, English, Pol. Econ., etc., given partly by members of regular Univ. staff. (2) Popular lectures in numerous centres. (3) Radio popular lectures, weekly. (4) Summer School. (5) A number of short courses at Man. Agric. Coll. in Agric. Eng., Live Stock, Hort., Beekeeping, Dairying, etc.

**PUBLICATIONS.** *Calendars* (July), *Matricn.*, and the several faculties, free; *Manitoban* (students' paper), weekly; *Annual Report*; *Historical Notes* (1877-1917); *Inaugural and Convocation Addresses*; *List of Faculty Publications*; *The History and Present Position of the University Site Question* (by Isaac Pitblado).

## THE YEAR 1928-29

**BENEFACTIONS.** Dr. H. H. Chown, 50 shares of Great West Life Assce. Co. to create a "Charles Gray Chown Student Fund"; estate of Mrs. Thos. Hart, \$1000 for a "Thomas Hart Memorial Scholarship in Classics"; Dr. H. M. Ami, a valuable collection of anthropological specimens.

**NEW DEVELOPMENT.** Appointment of a permanent Examn. Board of Manitoba for the administration of the Examns. in the Sec. Schs. The membership is composed of representatives of the Advisory Board of the Dept. of Edn. and of the Univ. Council.

**RESIGNATIONS.** R. C. Wallace, Prof. of Geol., on appt. as President, Univ. of Alberta; G. A. Elliott, Asst. Prof. of Pol. Econ., to take position in Univ. of Chicago; Chester Martin, Prof. of Hist., apptd. Hd. of the Dept. of Hist., Univ. of Toronto; A. S. P. Woodhouse, Asst. Prof. of Engl., apptd. Asst. Prof. Univ. of Toronto; L. A. Munro, Asst. Prof. of Chem. (Agr. Coll.); W. J. Rae, Lectr. in Poultry Husb.; F. A. Young, Assoc. Prof. of Med.

**RETIREMENTS.** Wm. Chestnut, A. W. Moody, W. Rogers, apptd. Prof. Emer. in Med., J. McKenty, apptd. Prof. Emer. in Surgery.

**DEATHS.** R. J. Blanchard, Prof. Emer. in Surgery; H. M. Cameron, Lectr. in Med. Jurisp.

**HONORARY DEGREES.** LL.D.—H. M. Ami, M.A., D.Sc.; D. M. Duncan, M.A.; Rev. R. G. MacBeth, M.A.; Chester Martin, M.A., B.Litt.; W. C. Murray, M.A.

**STUDENTS.** Full-time: total, 2457, incl. 18 graduates. Part-time: total, 50. Summer School, 751; Extension, 482; extra-mural, 274, incl. 62 graduates.

**DEGREES.** B.A., 184; M.A., 13; B.Sc., 37; B.Sc. (H.Ec.), 18; B.Sc. (C.E.), 11; B.Sc. (E.E.), 10; B.Sc. (Med.), 1; M.Sc., 7; B.S.A., 12; B.Arch., 4; LL.B., 16; M.D., 50; LL.D. (Honorary), 5.

Diplomas in Agric., 10; H.Ec., 25; Pharmacy, 24.

# MONTREAL UNIVERSITY

PATRON—S.E. Cardinal G. VAN ROSSUM.

CHANCELLOR—S.G. Mgr. P. BRUCHÉSI, D.Th., Archbishop of Montreal ;  
ACTING—S.G. Mgr. GEORGES GAUTHIER, Archbishop of Taronna,  
Apostolic Administrator, O. L. d'H.

RECTOR—Mgr. V.-JOSEPH PIETTE, P.A., C. L. d'H.

PRESIDENT—HON. E. L. BÉIQUE, O. L. d'H., LL.D.

PRESIDENT OF THE EXECUTIVE COMMITTEE—ERNEST DECARY, N.P.

VICE-RECTOR—CANON E. CHARTIER, M. ès A., L. ès L., D.Ph.

SECRETARY-GENERAL—E. MONTPETIT, B.A., LL.D., K.C., D.S.P. Paris,  
membre de l'Ac. roy. lang. et litt. françaises de Belgique, Chev.  
O. Léop., O. L. d'H.

TREASURER—O. ARCHAMBAULT.

LIBRARIAN—A. FAUTEUX, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Agriculture</i> , v. Affiliated Instns.	Maurice, O., D.Th., L. ès L. Paris
<i>Anatomy</i> , v. also Med. His- tology	Prof.
Delorme, L. N., M.D.	Prof.
Masson, P., M.D. (A. Path.)	Prof.
<i>Applied Science</i> , v. Affiliated Instns.	
<i>Art, History of</i>	
Lagacé, J. B., M.A.	Prof.
<i>Biology</i>	[Prof.
Dalbis, L. J., D. ès Sc. Paris	
Prèfontaine, G., M.D.	Lectr.
<i>Botany</i>	
Victorin, Marie, D.Sc.	Prof.
<i>Chemistry</i> , v. also Affiliated Instns.	
Baril, G. H., M.D.	Prof.
Morin, L. J., M.A., L. ès Sc. Paris	Prof.*
Nadeau, H., L. ès Sc. Paris	Lectr.
Flahaut, J., L. ès Sc. Lille	Lectr.
Riou, P.	Lectr.
<i>Classics</i>	
Chartier, Can. E., M. ès A., L. ès L. Paris	Prof.*
Dombrowski, H., Ag. des L. Paris (Prof. of French Lit.)	Prof.
<i>Commerce</i> , v. Affiliated Instns.	
<i>Dental Science</i>	
Dubeau, E., D.C.D.	Prof.*
Nolin, J., D.C.D.	Prof.
Charron, E., D.C.D.	Prof.
Duhamel, J. A., M.D.	Prof.
Dufresne, G. A. H., M.D.	Prof.
Marsan, C. R.	Prof.
19 Profs. agrégés, 20 Clinicians and Demrs.	
<i>Economics</i> , v. Social Sciences	
<i>Engineering</i> , v. Affiliated Instns.	
<i>English Lang. and Lit.</i>	
Atherton, W., LL.D.	Prof.
<i>French Literature</i> , v. Classics	
<i>Geography</i>	[Prof.
Tessier-Lavigne, Y., L.Sc. Soc.	
<i>Geology</i> , v. also Affiliated Instns.	
Mailhot, A., I.C.	Prof.
<i>History</i>	
Bruchési, J., LL.D., Lic.Sc. polit. Paris	Prof. of Comml. and Genl. H.
Groulx, L., M.A., D.Th.	Prof.

Dean of the Faculty.

*Journalism*, v. Social Sc.*Mathematics*

Beaupré, V. E., B.A., I.C. Prof.  
Léveillé, A., B.A. Lond. Prof.

*Medicine*, v. *infra**Mineralogy*, v. Applied Sc.*Modern Languages*

Jasmin, H., D.Ph., D.Th., L.E.S.,  
M.A. Prof.

*Music*

Letondal, Arthur Prof.  
Poirier, Benoît Prof.  
Lapierre, Eugène Prof.  
Charbonneau, J. N.  
Head of Schola Cantorum.

*Philosophy*

Forest, C., Th.B., Ph.M. Prof.\*  
Pineault, L., D.Th., D.Ph., M.A.  
Prof.  
Gauthier, O., D.Th., Ph.D. Prof.  
Jasmin, L.-D., B.A., Ph.D., LL.D.  
Prof.  
Lamarche, A., D.Th., D.Ph. Prof.  
Vanier, G., B.A., LL.L. Prof.  
Hébert, E., D.Th., D.Ph. Prof.

*Physics*

Gendreau, E., L. ès Sc. Paris,  
Ph.D., M.D. Prof.  
Demers, J., B.A. Lectr.

*Physiology*

Asselin, E. G., M.D. Prof.

*School of Social Sciences, Econ.,  
and Pol.*, v. also Geog., Hist.,  
and Law

Montpetit, E., K.C., LL.D., D.S.P.  
Paris

Prof. of Econ., Pub. Fin.  
and Stat., Dir.

Baudouin, J. A., M.D. Prof.  
Doré, V. Prof.  
Vanier, G., LL.L. Prof.  
Pelletier, G., LL.L. (Journalism)  
Prof.  
Fauteux, N. (Journalism) Prof.

Rinfret, F. (Journalism) Prof.  
Leduc, A., LL.L. (Journalism)  
Prof.

Renaud, P. E. Lectr.  
Saint-Pierre, A. Lectr.  
Baudouin, J. A., M.D.  
Lectr. (Applied *Social Hygiene*).  
4 Profs. agrégés.

*Theology*

Allard, R., D.Th. Prof.  
Yelle, E.\* Prof.  
Ferland, A. Prof.  
Duchain, F., D.Th. Prof.  
Boileau, J. Prof.  
Gattet, B. M., D.Th. Prof.  
Gauthier, H., D.Th. Prof.  
Allard, A. Prof.  
Lesieur, R. Prof.  
McShane, G., D.Th. Prof.  
Maurault, O. Prof.  
Ouellette, J.-B. Prof.  
Desrosiers, J.-B. Prof.  
Thibault, E. Prof.  
Boudreau, H. Prof.

*Veterinary Science*

Généreux, D., M.V. Prof.  
Lorrain, L. P. H., M.V. Prof.  
Dauth, A., M.V. Prof.  
6 Profs. agrégés.

*Law**Administrative and Munic. L.*

Baudouin, G., LL.D. Prof.

*Civil L.*

Demers, Hon. L. P., LL.D.,  
J. of High Ct.\* Prof.  
Beaulieu, E., LL.D., K.C. Prof.

*Civil Procedure*

Taschereau, R., LL.D., K.C. [Prof.  
Genest, R., LL.D. Lectr.

*Comm. and Marit. L.*

Perrault, A., LL.D., K.C. Prof.

*Const. L.*

Cousineau, Hon. P., LL.D., J. of  
High Ct. Prof.

*Social Sciences, Economics*

Montpetit, E., B.A., LL.D., K.C.,  
D.S.P. Paris Prof.

*Criminal L.* [Prof.]

Morin, L. J. S., LL.D., K.C.  
Gemtron, L., LL.L. Prof.

*Financ., Comm., and Indust. L.*

Pérodeau, Hon. N., LL.D. Prof.  
Gouin, L. M., LL.D. Lectr.  
Gérin-Lajoie, A., LL.D. Lectr.  
Faribault, R., LL.L. Lectr.

*Internat. L. and Hist. of L.*

Lemieux, Hon. R., LL.D., K.C.  
Prof.

*Notarial Procedure*

Morin, V., LL.D. Prof.

*Roman L.*

Loranger, Hon. L., LL.D. Prof.

Medicine (for subjects of the first  
2 yrs.—Anat., etc., v. *supra*)

*Bacteriology*

Aubry, H., M.D. Lectr.

*Contagious Diseases*

Leduc, J., M.D. Prof.  
Delvecchio, P., M.D. Lectr.

*Deontology and History of Med.*

Fortier, L. E., M.D. Prof.

*Dermatology and Syph.*

Décarie, J. D., M.D. Prof.  
Archambault, G., M.D. Prof.  
Toupin, J. R., M.D. Lectr.

*Gynæcology*

Harwood, L. de L., M.D. Prof.\*  
Ethier, A., M.D. Prof.  
Trudeau, R., M.D. Lectr.

*Histology and Path. Anat.*

Dalbis, L. J., D.S. Paris Prof.  
Préfontaine, G., M.D. Lectr.

*Hygiene*

Baudouin, J. A., M.D. Prof.

*Legal Med.*

Derome, G. W., M.D. Prof.

*Medicine*

Benoit, E. P., M.D. Prof.  
Dubé, E., M.D. Prof.  
Lesage, A., M.D. (M. and Path.) Prof.

Bruneau, T., M.D. Lectr.  
Lebel, H., M.D. Lectr.  
Léger, A., M.D. Lectr. (M. & Path.).

Robichaud, P., M.D. Lectr.  
Riopelle, P. E., M.D. Lectr.  
Hamel, G., M.D. Lectr.  
Hébert, R., M.D. Lectr.  
Rouleau, A., M.D. Lectr.  
Verner, L., M.D. Lectr.

*Mental Diseases*

Tétreault, A., M.D. Prof.  
Lefebvre de Bellefeuille, G., M.D. Lectr.

*Obstetrics*

De Cotret, E. A. R., M.D. Prof.  
Langevin, S., M.D. Lectr.

*Ophth., Ot. and Rhino-Lar.*

..... Prof.  
Lasalle, A., M.D. Asst. Prof.  
Boulet, R., M.D. Hon. Asst. Prof.

*Pathology and Clin. Surg., v. also Med.*

Parizeau, T., M.D. Prof.  
Bourgeois, B., M.D. Prof.

*Pediatrics*

Ferron, A., M.D. Prof.

*Pharmacy*

Contant, J., D.Ph. Prof.  
President of the School & Prof.  
Larose, A. F., L.Ph. Prof.  
Laurence, A. J., L.Ph. Prof.  
Sec.-Dir. of the School & Prof.  
Lanctot, H., L.Ph. Prof.  
Vadboncœur, E., L.Ph. Prof.  
Quintin, A. D., L.Ph. Prof.  
Boutin, J., L.Ph. Prof.  
Flahaut, J., L. ès S. Lille Prof.  
Pilon, H., L.Ph. Prof.  
6 Profs. agrégés.

\* Dean of the Faculty.

<i>Physiotherapy</i>		Dufresne, E., M.D.	Lectr.
Jarry, A., M.D.	Prof.	Saint-Pierre, A., M.D.	Lectr.
Verschelden, L., M.D.	Lectr.	Derome, W., M.D.	Lectr.
<i>Propædæutics</i>		Paré, A., M.D.	Lectr.
Hébert, R., M.D.	Prof.	Roy, J. N., M.D.	Lectr.
<i>Radiology, etc.</i>		Blagdon, L., M.D.	Lectr.
Panneton, J. E., M.D.	Prof.	Rhéaume, P. Z., M.D.	Prof.
Pariseau, L., M.D.	Lectr.		
<i>Surgery, v. also Path.</i>		<i>Therapeutics</i>	
Marien, A., M.D.	Prof.	Masson, D., M.D.	Prof.
Ethier, E., M.D.	Prof.	Fortier, L. E., M.D.	Prof.
Saint-Jacques, E., M.D.	Prof.	Bourgoin, J., M.D.	Prof.
Hingston, D., M.D.	Lectr.	Mignault, G. E., M.D.	Lectr.
Demers, A., M.D.	Lectr.	<i>Toxicology</i>	
Gagnon, A., M.D.	Lectr.	Derome, W., M.D.	Prof.

## AFFILIATED INSTITUTIONS

AGRICULTURAL INSTITUTE at Oka, about 30 miles from Montreal, founded 1893 by the Trappist Fathers of Oka. Director, R. P. Leopold. 25 other Profs. of *Ag. Botany; Animal Biology and Hygiene; An. Industry; An. Pathology and Bacteriology; Apiculture; Arboriculture; Aviculture; Buildings and Accounts; Chem., Geol. and Mineral; Fruit and Flower Gardening; Kitchen Gardening; Large-scale Farming and Machinery; Maths.; Physics and Drawing; Soils; Zoology and Rural Economy.* 8 other Supts. of Practical Work.

VETERINARY MEDICAL SCHOOL, at Oka.

APPLIED SCIENCE, including Engineering. The École Polytechnique, which was founded in 1874, is subsidized by the Govt. of the Province of Quebec and the principal Railways of the Dominion. Principal, A. Boyer. Director, A. Frigon. 30 Profs. of *Architecture, Chemistry, Drawing, Electricity, Electro-technics, Electrochem., Electro-met., Engineering—Civil, Elec., Mech. and Sanit., Geodesy, Geology, Geometry, Heating, Hydraulics, Industrial Chem., Industrial Legisln., Indust. Technology, Maths., Metallurgy, Mineralogy, Mining, Physics, Railways, Surveying, Thermodynamics, Ventilation.* 14 Hon. Profs.

COMMERCE. École des Hautes Études Commerciales. Created by the Provincial Govt. in 1907. Director, Prof. H. Laureys. 31 other Profs. of *Accountancy, Banking, Chemistry, Customs Legislation, Economics, English, French, Geography, History, Insurance, Italian, Law, Maths., Math. Physics, Publicity.* 3 Hon. Profs.

CONSERVATOIRE NATIONAL DE MUSIQUE.

COLLEGE OF OPTOMETRY.

RADIUM INSTITUTE, affiliated with L'Institut Pasteur (Paris).

ENSEIGNEMENT SECONDAIRE OU CLASSIQUE. 14 Colleges for boys are affiliated to the Univ. under conditions providing for a 4 yrs.' High School course followed by a 4 yrs.' Coll. or Arts course, on the completion of which a student may qualify by examn. for a diploma admitting him to professional studies in the Univ. The *École d'enseignement secondaire pour les Jeunes Filles*

provides similar College courses for girls organized in French, English, and Special (Arts d'Agrément, Commerce, Pol. and Soc. Econ., Domestic Science) sections.

## GENERAL INFORMATION

The Univ. was incorporated under its present name by an Act of the Provl. Legislature on Feb. 14, 1920. For early history, see *Year Book* for 1929. In 1920 Faculties of Pure Science and of Letters and a School of Social, Economical and Political Sciences were formed; in 1921 the School of Dental Surgery was made a separate Faculty, and the Conservatory of Music was affiliated; in 1922 the Faculty of Philosophy was created. A Radium Institute was created in 1923. The general administration is conducted by a Senate, Commissions of Admn. and Studies, Univ. Council and Exec. Committee. Endowments: \$4,000,000 from a national subscription (1920), \$1,000,000 from the Provl. Govt., and \$1,000,000 from the Seminary of St. Sulpice.

**LIBRARY**, 125,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

**FACULTIES**. Theol. (constituted by the Grand Seminary of St. Sulpice); Philosophy; Law; Med.; Letters; Sciences; Dental Science. Incorporated in the Univ. are Schools of Pharmacy, and Social, Econ. and Polit. Science.

**DEGREES AND DIPLOMAS**. Courses in the incorporated and affild. institns. include—a 4 yrs.' course in the Éc. Polyt. for the B. ès Sc. App.; 3 yrs. in the Éc. de Méd. Comp. for the D. en Méd. Vét.; 4 yrs. in the Éc. de Ch. Dent. for the D. en Ch.D.; 4 yrs. in the Éc. de Phm. for the B. en Ph. and D. en Ph.; 4 yrs. in Inst. Agric. d'Oka for the B. en Agr. and D. en Sc.Agr.; 3 yrs. in the Éc. des H.É. Comm. for a Diploma.

**PUBLICATIONS**. *Annuaire Général*; *La Revue Trimestrielle Canadienne*; *L'Actualité Économique*.

## THE YEAR 1928-29

**INTERCHANGE OF TEACHERS**. (1) Under the Auspices of l'Institut Scientifique Franco-Canadien: (a) French professors in Canada: Dr. Cyrille Janin, Prof., Faculté de Méd., Paris; M. Pierre Franck, Chief Engineer of L'Aéronautique française; M. Étienne Gilson, Prof. à La Sorbonne; M. Raymond Guyot, Prof. à La Sorbonne. (b) Canadian Professor in France: The Hon. Rodolphe Lemieux, LL.D., Prof. of Intern. Law and Hist. of Law at l'Univ. de Montréal, leader of the House of Commons (Canada); gave a course at the Sorbonne on "The Political Evolution of Canada." (2) In the Fac. of Medicine. French Professors: Dr. Cyrille Janin, Dr. Charpentier, and Dr. Simon of the Fac. de Méd., Paris.

**RETIREMENTS**. *Law*: Hon. Judge Eugène Lafontaine, Dean of the Faculty. *Medicine*: Dr. L. D. Mignault, Dr. A. A. Foucher, Dr. J. J. Guerin, Dr. C. N. Valin.

**DEATHS**. Paul Charbonneau, Prof. à la *Schola Cantorum*; Dr. L.-J. Demers, Prof. à l'École Vétérinaire; Dr. Eugène Virolle, Prof. à la Fac. de Méd.; Avocat Louis Lussier, membre de l'Administration; M. Victor Many, ancien Prof. à la Fac. de Théol.; Dr. Eugène Latreille, Prof. honor. à la Fac. de Méd.; Dr. Raoul Masson, Prof. à la Fac. de Méd.; Dr. Georges-T. Moreau, ancien assist. à la Fac. de Méd.; Hon. Juge J.-E. Robidoux, ancien membre du conseil de l'École

Poly. ; Sir Lomer Gouin, Président de l'Univ. ; R. P. J.-A. Charlebois, ancien supérieur du Séminaire de Joliette.

HONORARY DEGREES. *LL.D.*—Hon. Judge Pierre Basile Mignault, Hon. Judge Thibaudeau Rinfret. *D.Sc.*—M. L. J. Dalbis. *M.D.*—Pierre Masson. *D.Ag.Sci.*—Dom Pacome Gaboury. *D.App.Sci.*—Olivier Lefebvre. *D.Com.*—Victor Doré.

STUDENTS. Full-time, preparing in colleges for baccalaureate, 6312.

DEGREES. B.L., 23 ; B.S., 15 ; B.A., 188 ; L.Th., 8 ; B.Th., 12 ; B.D. Can., 9 ; LL.L., 18 ; LL.B., 28 ; M.D., 38 ; L. ès S., 3 ; B.C.D., 5 ; D.C.D., 16 ; D.M.V., 3 ; B.S.Ap., 9 ; B.S.A., 3 ; L.S.Com., 13 ; B.Sc.C., 3 ; B.Chm., 198 ; B.Opt., 3.

# MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

CHAIRMAN OF THE BOARD OF REGENTS—R. C. TAIT.

PRESIDENT OF THE SENATE—G. J. TRUEMAN, Ph.D. (Col.), M.A.

SECRETARY AND LIBRARIAN—Prof. F. W. W. DES BARRES, B.A., D.D.

REGISTRAR—Prof. W. M. TWEEDIE, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>		[Prof.	West, F. L., M.A., B.Sc. McG.	Prof.
Fraser, R., B.S. Guelph, M.A. Tor.			MacLachlan, I., B.Sc. Qu.	Instr.
Fawcett, Miss M., B.A.	Instr.			
1 Asst.				
<i>Chemistry</i>			<i>English Lang. and Lit.</i>	
Bigelow, H. E., Ph.D. Harv.	Prof.		Tweedie, W. M., M.A. Lond.	
Mason, H. E., B.Sc.	Instr.			Allison Prof.
MacLaughlan, D., B.Sc.	Instr.		Smith, L. L., M.A. McG.	Instr.
3 Assts.				
<i>Classics</i>		[Wood Prof.	<i>History</i>	
Cohoon, J. W., Ph.D. Princeton			Des Barres, F. W. W., B.A., D.D.	Prof.
Wall, Georgie M., B.A.	Instr.			
<i>Commerce and Economics</i>			<i>Household Science</i>	
Guy, N. M., M.A. Harv.	Prof.		Chown, Olive, M.A. Tor., B.Sc.	
1 Asst.			Col.	Hd. of Dept.
<i>Education</i>			2 Teachers, 1 Instr.	
Shaw, L. W.	Prof.		<i>Mathematics</i>	[Prof.
Trueman, G. J., M.A., Ph.D. Col.			Hunton, S. W., B.A. Lond., M.A.	
	Prof.		Derry, D., B.A. Tor.	Instr.
Flemington, Rev. W. T. R., M.A.			<i>Philosophy</i>	[Massey Prof.
	Lectr.		Liddy, R. B., B.D., Ph.D. Tor.	
<i>Engineering</i>			<i>Physics</i>	
McKiel, H. W., B.A., B.Sc. Qu.			MacGregor, D. G., B.A. Ox.	Prof.
(Mech.E.)	Prof.		Clements, W. H., M.A. Tor.	Instr.
			1 Asst.	

## GENERAL INFORMATION

Mount Allison University was founded as a degree-giving body in 1858 under the name "Mt. Allison Wesleyan College." For early history, see *Year Book*, 1929.

The UNION CHURCH of Canada controls the administration on strictly non-sectarian principles; many students belong to other religious denominations.

LIBRARY, 30,000 vols. Engineering WORKSHOPS with gasoline engine, etc.

FACULTIES. Arts, Sci., Sch. of Appl. Sci., Dept. of Household Sci.

DEGREE COURSES. 3 yrs., B.Mus.; 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. "Senior Matricn." Certifs. (e.g. N.S. Provl. Educn. Dept., grade A) admit to 2nd yr. of B.A. or B.Sc. course; Prince of Wales Coll. High Honour Diploma to 3rd yr.

HIGHER DEGREES. Open to B.A. of 1 yr.'s standing, M.A.; to B.Sc. of 1 yr.'s standing, M.Sc.; Honorary, LL.D., D.C.L.

CERTIFICATES. Appl. Sci., 2 yrs.' course may be taken as part of 3rd and 4th yrs. of B.A., or B.Sc. (see p. 383); Finance and Com., 2 yrs.

FEES, tuition and registration, annual: Arts, \$115 for 5 subjects; Engin., \$130.

RESIDENCE. Accommodation in the Univ. for 140 men and 60 women.

PUBLICATIONS. *Calendar* (July); *Argosy* (students'), weekly, and *Mt. Allison Record*, monthly.

## THE YEAR 1928-29

BENEFACTIONS. Under will of late H. Marshall Jost, c. \$300,000; upwards of \$400,000 in connexion with the Million Dollar drive.

NEW DEPARTMENT. For Mechanics.

HONORARY DEGREES. LL.D.—William Hanson. D.C.L.—Judge E. H. Armstrong, Hon. R. B. Bennett, Sir Joseph W. Flavelle, Bt., Judge W. B. Jonah.

STUDENTS. Full-time, 397. Extens. Dept. and Summer School, 69.

DEGREES. B.A., 28; B.Sc., 11; B.Sc. (Househ. Sci.), 3.

# UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

VISITOR ON BEHALF OF H.M. THE KING—THE LIEUT.-GOVERNOR OF  
NEW BRUNSWICK.

CHANCELLOR—C. C. JONES, M.A., Ph.D., LL.D.

PRESIDENT OF THE SENATE—W. S. CARTER, M.A., LL.D., D.C.L.

REGISTRAR—HAVELOCK COY, M.A.

## PROFESSORS AND LECTURERS

<i>Chemistry</i>	[Prof.	Hughes, P. J., B.A.
Cameron, A., M.A., B.Sc. St. And.		Lectr. (Torts, Crimes)
Perry, Stanley C., B.A. Asst. Prof.		Winslow, J. J. F., B.A.
<i>Classics and Anc. Hist.</i>	[Prof.	Lectr. (Procedure)
Caltley, R. E. D., B.A. Camb.		At St. John :
<i>Engineering</i>		Hazen, Sir Douglas, C.J.,
Turner, E. O., S.B. Mass. I. Tech.		K.C.M.G., B.A., LL.D.
(Civil E.)	Prof.	Dean of Faculty.
Stephens, J., M.A., M.A.I. Dub.,		McInerney, H. O., M.A., B.C.L.
M.I.C.E.I. (Mech. E. and		Prof.
Drawing)	Prof.	15 Part-time Lectrs.
<i>Engineering, Electrical</i>		<i>Mathematics</i>
Baird, A. F., M.Sc.	Prof.	The Chancellor
<i>English and Mod. Hist.</i>		Jones, W. G., B.Sc. Asst. Prof.
McPherson, M., M.A. Edin.	Prof.	<i>Natural History and Geol.</i>
<i>Forestry</i>		Cox, P., B.A., B.Sc., Ph.D. Prof.
Gibson, J. Miles, B.Sc.	Prof.	<i>Philosophy and Economics</i>
Flieger, B. W., B.Sc. Asst. Prof.		Kierstead, W. C., Ph.D. Chic.,
<i>French and German</i>		M.A. Prof.
Pugh, R. W. B., B.A. Ox.	Prof.	<i>Physics</i>
<i>Law</i>		Priestman, B., B.A. Camb., M.Sc.
Richards, C. D., B.A.		McGill Prof.
Lectr. (Contracts and		
Real Property).		

## GENERAL INFORMATION

The "College of New Brunswick" was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as "King's College," and merged in 1859 in the Univ. of N.B. established in that year. A Faculty of Law was established in 1923 in St. John, taking over, with some changes, the work of the former King's College Law School. The Provincial Govt. appoints the Chancellor and a majority of the governing body, called the Senate, of which the Chief Supt. of Education for the Province is *ex officio* President. The annual grant from Provincial revenues is \$25,000.

**LIBRARY:** 14,000 vols. **MUSEUMS:** Natural History (rich in birds). **LABORATORIES:** Bot., Chem., Engin., Geol., Phys., Psych. **OBSERVATORY:** Telescope with 6" clear aperture.

**DEPARTMENTS.** Arts, Applied Science (Engineering and Forestry), Law.

**DEGREE COURSES.** 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. (in Pure Science, Engin. or Forestry). 3 yrs., B.C.L. The "Senior" Matricn. (or equivalent) Certif. admits to the 2nd year. The first 2 yrs. in Engin. are arranged to suit candidates for licences as Land Surveyors.

**HIGHER DEGREES.** Open to B.A. of 2 yrs.' standing, M.A.; to B.Sc. in Pure Science of 2 yrs.', in Engin. or For. of 3 yrs.' standing, M.Sc.; to B.A. of 6 yrs.' standing, B.C.L.; to B.C.L. of 5 yrs.' standing, D.C.L.; D.Litt., D.Sc., LL.D. (Hon.).

**FEES,** tuition, annual: Arts, \$86; Engin. or Forestry, \$120.

**PUBLICATION.** *Calendar* (January).

## THE YEAR 1928-29

**BENEFACTIONS.** The Rt. Hon. Lord Beaverbrook has undertaken to furnish Lady Beaverbrook's Building (Students' Residence) and to provide clock with chimes. The Provincial Government has granted \$100,000 in addition to the \$200,000 previously voted to provide accommodation for Departments of Geology and Forestry and a Library; \$15,000 supplementary grant from Govt.; J. K. Fleming bequest of \$2000 for Scholarship.

**HONORARY DEGREES.** LL.D.—Hon. Henry I. Taylor, Sir Charles J. Symonds, Hon. Hugh H. MacLean, A. S. MacFarlane, E. J. Alexander.

**STUDENTS.** Full-time: Arts and Pure Science, 289; Law, 7.

**DEGREES.** B.A., 24; B.Sc., 19 (including 13 in Engineering and 6 in Forestry); B.C.L., 2.

# UNIVERSITY OF OTTAWA

APOSTOLIC CHANCELLOR—H.G. THE ARCHBISHOP OF OTTAWA.

RECTOR—F. U. ROBERT, O.M.I.

SECRETARY—F. F. MARCOTTE, O.M.I.

BURSAR—L. BOUVET, O.M.I.

PREFECT OF STUDIES—J. GRAVEL, O.M.I.

PREFECT OF DISCIPLINE—J. HÉBERT, O.M.I.

## PROFESSORS

[a = Arithmetic, c = Classics, e = English, f = French, h = History, l = Latin, m = Mathematics, p = Penmanship, ph. = philosophy, r = Religious Knowledge.]

- |                                    |                                   |
|------------------------------------|-----------------------------------|
| Beaulieu, J.—Prep. Class.          | Julien, O., M.A., L.Ph.—e, f, m,  |
| Bédard, R., B.A., Ph.L.—f, h.      | Stenography.                      |
| Belleau, L. de G.—f.               | Laframboise, H.—e, l.             |
| Bergevin, J. L., L.Ph., M.A.—l.    | Lajeunesse, J. A., M.A., L.Ph.,   |
| Bétournay, A., Ph.L., M.A.—l.      | D.D.—Nat. Sc., Pedagogy.          |
| Bradley, F. H., M.A., L.Ph.—e, h.  | Lamoureux, R., Ph.D., B.Th.—      |
| Brunet, A., L.Ph., L.Th.—c.        | Ped.                              |
| Cadieux, J.—e, r, p.               | Lapante, L., B.A.—m.              |
| Caron, A., L.Ph., L.Th.—r.         | Latulipe, E., B.A.—m, r, Corn-    |
| Caron, D., L.Ph., L.Th.—e, r.      | Law.                              |
| Cary, A., B.A., L.Ph.—e, r, Econ.  | Le Bel, M. W., M.D., C.M.—Biol.   |
| Chartrand, J., B.Th.—e, r.         | Leblanc, R., Ph.D., B.Th.—ph.     |
| Cornellier, P., B.A., Ph.D., D.D., | Lebrun, R., B.A.—h, l.            |
| B.C.L.—r, ph.                      | Leclerc, A., B.A., L.Ph.—f, m (on |
| Cunningham, E., B.Ph.—f, h, l.     | leave).                           |
| Deschamps, T.—r, f, e, l.          | Legault, R.—r, Business.          |
| Deschatelets, L.—r.                | Lejeune, L., D.Litt—h.            |
| Desnoyers, A., Ph.D., D.D., B.C.L. | L'Heureux, C.—f.                  |
| —r.                                | Logan, J.—f, h, p.                |
| Dubé, H., Ph.D., D.Sc.—m,          | Maillette, A., L.Ph., L.Th.—f, m, |
| Physics, Astron.                   | Zool.                             |
| Dubois, N.—r.                      | Marchand, G., Ph.D., D.D.—r.      |
| Emery, R., B.A.—e, l.              | Marcotte, F. F., Ph.D., D.D.—     |
| Fleming, R., B.A.—Pedag.           | e, h, l.                          |
| Fusey, A., Ph.L.—f.                | Maroney, J.—e, m.                 |
| Grace, F., B.A.—e, l.              | Martel, G. E., L.Ph.—m, Bot.      |
| Guertin, A., B.L.—f, h.            | Matte, H., L.Ph., L.Th.—ph.       |
| Hayden, W., B.A.—c, e.             | Moreau, A.—l.                     |
| Hébert, J., Ph.L., Th.L.—l, r.     | Paquette, A.—f, Music.            |
| Jacques, A., L.Ph., B.Th.—h, m,    | Pelletier, A., M.A.—c.            |
| Bot.                               | Pelletier, L. P., Ph.L., L.Th.—e. |
| Jasmin, A., B.L., Ph.D., L.Th.—    | Poirier, P., L.Ph., L.Th.—r.      |
| ph.                                | Poulet, D., L.Ph.—(on leave).     |

Poupart, H., Ph.D., D.D.—m, Physics.	St.-Denis, R., B.A., Ph.L.—Ped.
Provencher, R.—f, h, l, m.	Scheffer, P., L.Ph., L.Th.—r.
Quigley, J.—e, m.	Sénecal, R.—r, Business.
Rajotte, A., L.Ph.—r, Business.	Simard, G., Ph.D., D.D.—Eccl. Hist.
Ralph, D.—e, m.	Thivierge, E., L.Ph., B.Th.—f, h.
Rénaud, E., B.A., L.Ph.—Chem., r.	Toupin, A., L.Ph., B.Th.—r, l.
Robert, U., D.D.—(on leave).	Véronneau, A., M.A.—c, f.
Royal, E., L.Ph., D.D.—e, f, h (on leave).	Verville, E., Ph.L.—f, l.
St.-Denis, H., B.A., Ph.D., D.D.— (on leave).	Villeneuve, J. M. R., D.Ph., D.D. —r.
	Voyer, O.—f.
	Watson, M. E., B.A., Ph.L.—Ped.

### GENERAL INFORMATION (v. Canadian Univs., pp. 343 ff.)

The "College of Bytown," incorporated in 1849, changed its name in 1861 to "College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. By a papal brief dated Feb. 5, 1889, it was accorded the status of a Catholic University. The Univ. is conducted by the Oblate Fathers of Mary Immaculate.

**AFFILIATED INSTITUTIONS.** 4 Convents, a Seminary and 2 Academies at Ottawa; St. Joseph and Sacred Heart Academies at Hawkesbury, Ont.; College Thevenet, Gravelbourg, Sask.; College Mathieu, Gravelbourg, Sask.; Ottawa General Hospital, Training School for Nurses.

**LIBRARY,** 25,000 vols. The Parliament Library, to which students have access, has 300,000 vols. **MUSEUMS:** In the Univ.—Geol.; access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. **LABORATORIES:** Chem., Phys., Mineral.

**DEGREES, ETC.** B.A., M.A., B.L. (Lit.), B.Phil., B.Th., D.Th., LL.D. (Hon.), Lic. Phil., D.Phil., Lic. Th. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fifth to the Eighth "Forms," that of the first 4 Forms being preparatory to matricn. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.A. exempts law and medical students from Prelim. Examns. and entitles the former to a reduction of 2 yrs. of the ordinary 5 yrs.' course. The B.Th. and the L.Th. involve respectively 2 and 3 yrs.' study of Theology after the completion of a classical course; the B.Ph. and the L.Ph. respectively 3 and 4 yrs.' study after matricn. Marks assigned for the exercises of students are read in public once a month, and monthly reports are sent to parents.

**FEES.** For Tuition and Board Residence per half-year, \$300. Degrees from \$5 to \$75.

**RESIDENCE.** Students whose homes are not in Ottawa are required to live in the Univ. building, where they are subject to strict discipline—e.g. no book or newspaper may be introduced without having been previously examined and approved of by the Prefect of Discipline.

### THE YEAR 1928-29

**NUMBER OF STUDENTS.** Total, not incl. affiliated institutions, 1006.

**DEGREES.** B.A., 15; M.A., 6; B.L. (Lit.), 2; D.Lit., 3; B.Ph., 26; L.Ph., 19; Ph.D., 3; B.Th., 13; L.Th., 6; LL.D., 1.

# QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

CHANCELLOR—JAMES RICHARDSON, B.A., LL.D.

PRINCIPAL AND VICE-CHANCELLOR—R. BRUCE TAYLOR, M.A., D.D., LL.D. (*shortly retiring*).

RECTOR—O. D. SKELTON, M.A., Ph.D.

REGISTRAR AND TREASURER—W. E. McNEILL, M.A., Ph.D.

DEPUTY REGISTRAR—ALICE KING.

LIBRARIAN—E. C. KYTE.

DEAN OF WOMEN—HILDA C. LAIRD, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>		<i>Classics</i>	
Walker, C. E., C.A.	Assoc. Prof.	Callander, T., M.A. Aberd. and Ox.	
Smails, R. G. H., A.C.A.		(Greek)	Prof.
	Assoc. Prof.	Law, T. E., B.A. Lond. and Ox.	
<i>Anatomy</i> , v. also Med.—Obs., Surg.			Lectr.
Matheson, D. C., M.B.	Prof.	Jolliffe, R. O., Ph.D. Chic. (Latin)	
2 Fellows, 1 Demr.			Prof.
<i>Banking</i> , v. Pol. Econ.		Tracy, H., B.A., Ph.D.	Prof.
<i>Biology</i>		Macdonnell, Mary L., M.A.	
MacClement, T. W., D.Sc. Armour Inst., M.A.	Allan Prof.		Lectr. in Latin.
Earl, R. O., M.Sc. Chic., B.A., Ph.D. Chic.	Asst. Prof.	<i>Commerce</i> , v. also Accounting	
Klugh, A. B., M.A., Ph.D. Corn.		Curtis, C. A., B.A. Tor., Ph.D. Chic.	Asst. Prof.
	Asst. Prof.	<i>Economics</i> , v. Polit.	
MacRae, M., B.A. Queen's		<i>Engineering</i> , v. also Mining	
	Part-time Asst.	Macphail, A. J., C.M.G., B.Sc. (General E.)	Prof.
<i>Chemistry</i> , v. also Engin. [Prof.		Arkley, L. M., M.Sc. (Mech. E.)	
Neish, A. C., M.A., Ph.D. Col.			Prof.
McRae, J. A., M.A., Ph.D., F.I.C.	Prof.	Goodwin, L. F., Ph.D. Heid., A.C.G.I., F.I.C. (Indust. and Chem. E.)	Prof.
Frost, G. B., B.A. Tor., Ph.D. Cal.	Asst. Prof.	Wilgar, W. P., B.Sc. (Civil E.)	Prof.
Munro, L. A., M.A. Dal., Ph.D. McG.	Asst. Prof.	Malcolm, L., M.A., B.Sc. (Munic. E.)	Prof.
Dorrance, R. L., B.A. Tor.	Lectr.	Jemmett, D. M., M.A., B.Sc. (El. E.)	Prof.
12 Tutors.		Ellis, D. S., M.A., B.Sc. (Civil E.)	
<i>Chemistry, Biological</i>			Assoc. Prof.
Logan, J. F., B.A. Acadia, Ph.D. Yale	Assoc. Prof.	Rutledge, L. T., B.A.Sc. (Mech. E.)	Assoc. Prof.

Jackson, A., B.Sc. (Draughting)  
Asst. Prof.  
Morgan, S. C., B.Sc. Asst. Prof.  
9 Tutors, 7 Demrs., 3 Instrs.

*English* [Prof.  
Clarke, G. H., M.A. McM., D.Litt.  
Roy, J. A., M.A. Edin.  
Prof. (on leave).  
Alexander, H., M.A. Liv.  
Assoc. Prof.  
Gordon, Miss W., M.A. Asst. Prof.  
Irvine, M., B.A. Lectr.  
Duthie, E. E., M.A. Lectr.  
Theobald, J. R., M.A. Lectr.  
6 Tutors.

*French* [Prof.  
Campbell, P. G. C., M.A. Ox.  
Walter, Felix B. A., M.A. McG.  
Asst. Prof.  
Conacher, W. M., B.A. Lond.  
Asst. Prof.  
Wynburne, S. B., B.A. Lectr.  
McConnell, Mme. B. S. Instr.

*Geology* [Prof.  
Baker, M. B., B.A., B.Sc., F.G.S.A.  
Bruce, E. L., M.A., Ph.D. Col.  
Miller Memorial Prof.  
Rose, B., Ph.D. Yale, B.Sc.  
Assoc. Prof.

*German*  
Macgillivray, J., B.A. Tor., Ph.D.  
Leip. Prof.  
Laird, Hilda C., B.A. Queen's  
(Dean of Women) Lectr.

*Hebrew, v. Semitic*

*History*  
M'Arthur, D. A., M.A.  
Prof. of H. and Douglas  
Prof. of Colonial H.  
Prince, A. E., M.A. Ox. and Manc.  
(English H.) Assoc. Prof.  
Trotter, R., B.A. Yale, M.A., Ph.D.  
Harv. Assoc. Prof.  
Rogers, N. M., M.A. (also in Econ.)  
Assoc. Prof.

*Italian, v. Romance*

*Mathematics*

Matheson, J., M.A., Dean of the  
Faculty of Arts Prof.  
Gummer, C. F., M.A. Ox., Ph.D.  
Chic. Prof.  
Miller, Norman, Ph.D. Harv., M.A.  
Prof.  
Johnston, K. P., M.A., B.Sc.  
Asst. Prof.  
Cooper, D. A., B.A. Lectr.  
Newlands, Mrs. Etta, M.A. Instr.  
8 Tutors.

*Medicine, v. infra*

*Metallurgy*

MacKay, G. J., B.Sc. Prof.  
Carson, O. A., M.A. Col., B.Sc.  
Lectr.  
Jenkins, W. S., B.Sc. Asst.

*Mineralogy*

Hawley, J. E., M.A. Prof.

*Mining Engineering*

Graham, S. N., B.Sc. Prof.

*Philosophy*

Humphrey, Geo., B.A. Ox., Ph.D.  
Harv. Prof.  
Jackson, R., M.A. Ox.  
Assoc. Prof.  
1 Tutor.

*Physics*

[Prof.  
Clark, A. L., B.Sc. W.P.I., Ph.D.  
Dean of Fac. of App Sc.  
Baker, W. C., M.A. (Expl. P.) Prof.  
Gray, J. A., D.Sc. Manc.  
Chown Research Prof.  
Robertson, J. K., M.A. Tor. Prof.  
Flammer, E., B.Sc. Calif., Ph.D.  
Harv. Assoc. Prof.  
Watts, J. O., M.A. Lectr.  
Thomson, K., M.A. Lectr.  
2 Tutors.

*Physiology*

Melvin, G. S., M.D. Aberd. Prof.  
Ettinger, G. H., B.A., M.D., C.M.  
Lectr. in P. and Embryol.  
(on leave of absence).  
Lindsay, K., M.D. Lectr.  
1 Fellow.

*Political and Econ. Science*

Mackintosh, W. A., Ph.D. Harv.,  
M.A. Macdonald Prof.  
Rogers, N. M., M.A. (also in Hist.)  
Assoc. Prof.  
Knox, F. A. Asst. Prof.  
Nash, E. F., B.A. Ox. Lectr.  
3 Tutors in Econ. and Banking.

*Romance Lang. and Lit.*, v. also  
French

Brovedani, J. H., D. ès L. Rennes  
Prof. of Span. & Ital.  
McNeill, Caroline E., M.A. Instr.

*Semitic Langs. and Lit.* [Prof.]

Jordan, W. G., B.A. Lond., D.D.  
Kent, H. A., M.A., D.D. (Hebrew)  
Prof.

*Spanish*, v. Romance

Medicine (for subjects of the first  
2 yrs.—Anat., etc., v. *supra*)

*Anæsthetics*, v. Surg.*Bacteriology*

Reed, G. B., M.A., B.Sc., Ph.D.  
Harv. Prof.  
Orr, J. H., M.D., C.M. Asst. Prof.

*Electro-Therapy*, v. Mat. Med.*Embryology*

Ettinger, G. H., B.A., M.D. Lectr.

*Gynæcology*

Mylks, G. W., M.D. Prof.  
Morison, M. J., M.D. Lectr.

*Materia Med.*

Gibson, T., M.D., M.A., M.B.  
Edin. Prof.  
Quigley, J. P., M.A., M.D.,  
M.R.C.S. Eng., L.R.C.P.  
Lond. (Lectr. in Electro-  
Therapy) Asst. Prof.

*Med. Jurispr. and Toxicology*

Gardiner, R. J., M.D., C.M. Lectr.  
Rigney, T. J., B.A., K.C. Lectr.

*Medicine and Clin. Med.*

Connell, W. T., M.D., M.R.C.S.  
Eng., L.R.C.P. Lond. Prof.

Gibson, W., M.D.

Assoc. Prof. of M.  
MacCallum, E. C. D., M.D., C.M.  
McG. Assoc. Prof. of M.  
Third, J. R., B.A., M.D. Lectr.  
Macdonnell, P. M., B.A., M.D.  
Clin. Asst. & Historian.  
Hopkins, B. H., M.B. Tor. Lectr.  
Bird, G. H., M.B. Clin. Asst.

*Obstetrics*

Mylks, G. W., M.D. Prof.  
O'Connor, F. J., M.D., C.M.  
Lectr.  
Huyck, P. H., M.D. Clin. Asst.  
Elliott, C. H., M.D. Clin. Asst.

*Ophth., Ot., Laryng. and Rhin.*

Cays, F. A., M.D., C.M.  
Assoc. Prof.  
Connell, H. C., B.A., M.D., C.M.  
Clin. Asst.  
Folger, H. P., B.A., M.D., C.M.  
Clin. Asst.

*Pathology*

Miller, J., B.Sc., M.D. Edin., D.Sc.  
Birm. Prof.  
Hay, W. D., M.A., M.D., C.M.  
(Lectr. in Clin. Microscopy)  
Asst. Prof.

*Pædiatrics*

[Prof.]  
MacGregor, R. R., M.D., C.M.

*Physiology*

Melvin, G. S., M.D. Aberd. Prof.  
Ettinger, G. H., B.A., M.D.  
Asst. Prof.

*Preventive Medicine*

Bennett, C. W., M.D., C.M. Lectr.

*Psychiatry*

Ryan, E., B.A., M.D., C.M. (Assoc.  
Prof. of Surg.) Prof.

*Surgery*

Austin, L. J., M.Ch. Camb.,  
F.R.C.S. Eng. Prof. of Clin. S.  
Etherington, F., C.M.G., M.D.  
Prof. and Dean.  
Gardiner, R. J., M.D., C.M.  
Asst. Prof.

Keyes, S. J., M.D., C.M. (Lectr. in Anæsthetics)	Bogart, I. G., M.D., C.M. Asst. Prof.	Assoc. Prof.
Sparks, J. F., B.A., M.D., C.M.	<i>X-ray and Physiotherapy</i>	
Asst. Prof. of S. and <i>Appl. Anat.</i>	Jones, W. A., M.D. West	Asst. Prof.

## AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE. Principal and Prof. of Old Test. Criticism and Exegesis, H. A. Kent, M.A., D.D. 5 other Profs.

## GENERAL INFORMATION

Queen's College, Kingston, was founded by Royal Charter in 1841. For early history, see *Year Book* for 1929.

The administration is vested in a Board of Trustees, composed of Chancellor, Principal and Rector, and representatives of the College, the Faculties, Graduates and Benefactors.

**LIBRARY**, 150,000 vols. (valuable Canadian Historical Section). The Douglas Library: 72,000 vols. and pamphlets, including many scarce books and early eds. of valuable historical works. The Reading-room has over 4000 vols. on open shelves, and 750 periodicals. The Lorne Pierce collection of Canadiana is among the best, and the Shortt-Doughty collection of pictures and portraits of Canadian interest is the best in existence. **MUSEUMS**: Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American Stone Age collection). **LABORATORIES**, including important School of Mines buildings: Biol. (accommodating 220 students), Chem., Geol., Physics, Engin., Mining, Metall., Mineral. **OBSERVATORY** with 6" telescope. **HOSPITALS**, available for clinics, 2 general, 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

**FACULTIES**. Arts, Applied Science, Medicine. The Senate includes representatives of the Theol. College also.

**DEGREE COURSES**. Four years, B.A., B.Com., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics); 6 yrs., M.D., C.M.

Combined courses: 6 yrs., B.A. and B.Sc., B.A. and B.D.

For teachers in schools and others unable to pursue the full degree courses in Arts at the Univ. extra-mural instruction is provided by correspondence. All candidates for degrees must take in residence 9 of the 19 courses required for the Pass degree. Some of these may be covered at the Summer School of 7 weeks during July and Aug., but the examns. written are the regular Sept. examns. set for all students.

**Banking** Courses leading to diplomas of Associate or Fellow of the Canadian Banking Asscn. Tuition by correspondence to members of Canadian Banks.

By agreement with the Can. Institute of Chartered Accountants, Toronto, the tuition of their course, leading to the C.A. certifi., is given by the Univ.

**HIGHER DEGREES**. M.A. (1 yr. graduate course); M.Sc. (1 yr. course and 2 yrs.' professional practice); Ph.D. (3 yrs.); D.Sc. (2 or 3 yrs.); D.P.H. (Doctor of Pub. Health); B.D. (3 yrs.' course or its equivalent); Honorary LL.D., D.D.

**DIPLOMAS**. Testamur in Theology (3 yrs.' course).

FEES (Class and Examn.) in Arts, \$70 p.a.; Science, \$130.

FELLOWSHIPS. Two of \$500 and two of \$250 open to Honour B.A. at Queen's and holders of equivalent degree elsewhere, for research in Fac. of Arts. One (\$500) may be awarded as a *Travelling Fellowship*. Milton Hersey Fellowship in Chem. (\$500) open to graduates of all univs. and technical colls.

RESIDENCE with rooms for 100 women and refectory accommodation for 150. Board and lodging, \$8 to \$10 a week.

UNIVERSITY EXTENSION. See above—Degree courses. A course of weekly lectures is open to the public, and lectures are given by members of the staff at various centres in Ontario.

PUBLICATIONS. *Calendars* (by Faculties); *Queen's Quarterly*; *Queen's Univ. Journal*.

## THE YEAR 1928-29

BENEFACTIONS. \$5000 for a Scholarship from the late J. B. McIver; \$2000 Matriculation Scholarship from the Ontario Hockey Assocn.; two Scholarships of \$42 each, to be awarded annually under the will of the late Jane McLeod.

BUILDINGS. Plans are being prepared for a new gymnasium, a new building to accommodate Geology and Mineralogy departments, and an extension to the Mining building for a new Mill.

NEW POSTS. The Miller Memorial Chair in Geology, founded in memory of the late W. G. Miller, Hd. of the Prov. Depart. of Mines, and former Prof. of the Univ. Prof. E. L. Bruce, of the Mineral. Depart., has been appointed to the new Chair, and J. E. Hawley, M.A., has been appointed Prof. of Mineralogy.

CHANGES IN REGULATIONS. In and after 1930, admission to the Fac. of Appl. Sci. will be subject to full Pass Matriculation including Lat. and another lang., with Hons. Matriculation in Engl., Maths., and either a lang. or Physics and Chem.

EXTRA-MURAL WORK. Banking Courses and Accounting Courses as formerly, with courses in the Faculty of Arts covering part of the B.A. work.

RETIREMENT AND DEATH. Dr. R. Bruce Taylor, Principal, on appointment (not yet made) of his successor. Dean J. C. Connell, of the Med. Fac., retired, and Dr. Frederick Etherington appointed Dean in his place. Dr. A. R. B. Williamson, Sec. of the Med. Fac., died. Dr. G. S. Melvin is Acting Secretary.

HONORARY DEGREES. (No return.)

STUDENTS. Full-time: Arts, 907; Science, 306; Medicine, 314; total, 1527. Summer School and extra-mural (Banking, Accounting and Arts), 2099. School of Navigation, 30.

DEGREES. M.A., 18; B.A. (Hons.), 75; B.A. (Pass), 97; B.Com., 29; M.Sc., 4; B.Sc. (Hons.), 5; B.Sc. (Pass), 53; B.D., 1.

# UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

CHANCELLOR AND *ex officio* CHAIRMAN OF THE BOARD OF GOVERNORS—  
Rt. Rev. J. MORRISON, D.D., Ph.D., Bishop of Antigonish.

PRESIDENT-RECTOR—Very Rev. H. P. MACPHERSON, D.D., D.C.L.

VICE-RECTOR AND DIRECTOR OF DISCIPLINE—Rev. D. J. MACDONALD,  
Ph.D.

BURSAR—Very Rev. D. C. MacKAY, B.A.

LIBRARIAN—Prof. M. M. COADY, Ph.D., D.D.

REGISTRAR—Prof. P. J. NICHOLSON, Ph.D.

DIRECTOR OF STUDIES—Prof. R. K. MCINTYRE, B.Sc., M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>		<i>French</i>	
Chisholm, J. C., B.A.	Prof.	Roche, A. J., L. ès L. Paris	
<i>Chemistry</i>			Carnegie Prof.
McIntyre, R. K., B.Sc.	Cath.	Raiche, J. F., M.A.	Prof.
Univ. of Amer.	Prof.	Mackay, D. C., B.A.	Prof.
<i>Classics</i>		<i>Gaelic Lang. and Lit.</i>	[Lectr.
MacPherson, H. P., D.D. Laval,		Nicholson, P. J. (v. Physics)	
D.C.L. King's Prof. (Latin).		<i>Geology and German</i>	
Sears, L. B., B.A. Ox. Asst. Prof.		McPherson, H., D.D., Ph.D. Urb.	
<i>Commerce</i>		Rome	Prof.
O'Brien, J. F., M.A. Harv.	Prof.	<i>History, v. English</i>	
<i>Economics and Sociology</i>		<i>Mathematics</i>	
MacDonald, D. J., M.A., Ph.D.		Clarke, G. T., B.Sc. N.S.T.	Prof.
Cath. U.A.	Prof.	McKenna, L. A., M.A. Asst. Prof.	
<i>Education</i>		[Prof.	
Chaisson, A. F., Ed.D. Harv.		<i>Philosophy</i>	
<i>English Lit. and Modern Hist.</i>		Boyle, T. O'R., D.D. Lav.	Prof.
Bannon, R. V., M.A.	Prof.	<i>Physics</i>	
Kenney, J. L., B.A., Ed.M. Harv.		Nicholson, P. J., M.A., Ph.D. J.	
	Prof.	Hopk.	Prof.

## GENERAL INFORMATION

The Univ. was authorized in 1866 to grant degrees, and was endowed with full Univ. powers in 1882. A new Charter was granted in 1909. The University is under the direction of the Catholic Church, but there are no religious tests for entrance or for degrees. The recent Neil McNeil bequest for

endowment is valued at \$600,000. A further \$200,000 will become due on the death of beneficiaries now receiving interest.

LIBRARY, 42,000 vols. LABORATORIES: Biol., Chem., Geol., Phys.

COURSES. 4 yrs., B.A., B.Sc.; 2 yrs., Engineering (gives admission to leading technical Colls. of Canada and U.S.A.); graduate 1 yr. course for M.A.

EXPENSES. Board and dormitory, \$6 per week; private room, \$2 per week; tuition for session, \$85; laboratory, \$5 to \$10; degree, \$5 to \$10.

A SUMMER SCHOOL under direction of Prof. P. J. Nicholson. Extension courses directed by Prof. M. M. Coady, D.D., Ph.D.

PUBLICATIONS. *Calendar* (July); *Xaverian*, monthly.

### THE YEAR 1928-29

BENEFACTIONS. \$67,000.

STUDENTS. Full-time: total, 282. Part-time, 13 (graduates). Summer School, 38.

DEGREES. B.A., 25; B.Sc., 5; M.A., 3.

# UNIVERSITY OF SASKATCHEWAN, SASKATOON

VISITOR—HON. W. H. NEWLANDS.

CHANCELLOR—SIR F. W. G. HAULTAIN, LL.D.

CHAIRMAN OF GOVERNORS—HON. P. E. MACKENZIE, B.A., LL.B.

PRESIDENT—W. C. MURRAY, M.A., LL.D., F.R.S.C.

REGISTRAR—A. R. WEIR, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>		Larmour, R. K., Ph.D. Minn.,
Neilson, J., B.Acc.	Prof.	B.Sc. Prof.
<i>Agriculture, v. infra</i>		Grace, N. H., B.A. Instr.
<i>Anatomy</i>		<i>Classics</i>
MacGibbon, R. T., M.B., C.M. Glas.	[Prof.	Sullivan, W. G., M.A. Dub. Prof.
Galloway, A., M.A., M.B., Ch.B.		Ramsay, W., B.A. Qu. Prof.
Aberd.	Asst. Prof.	Ferguson, R. M., B.A. Dub. Prof.
<i>Bacteriology and Pathology</i>		<i>Economics</i>
Lindsay, W. S., O.B.E., B.A. Dal.,		Swanson, W. W., M.A. Qu., Ph.D.
M.B. Edin.	Prof.	Chic. Prof.
Rea, George, M.B., Ch.B., D.P.H.		Carrothers, W. A., Ph.D. Edin.
Belf.	Prof.	
Rayner, N.	Asst.	M'Queen, R., M.A. Alb. Prof.
<i>Biology</i>		<i>Education</i>
Thompson, W. P., M.A. Tor.,		Quance, F. M., M.A. Alta, Ph.D.
Ph.D. Harv., F.R.S.C.	Prof.	Col. Prof.
Fraser, W. P., B.A. Dal., M.A.		Laycock, S. R., B.A. Tor., Ph.D.
Corn., M.Sc. McG.	Prof.	Lond. Prof.
Saunders, L. G., Ph.D. Camb.		The President, M.A. Edin., LL.D.
	Asst. Prof.	Qu. and Alb. Lectr.
Rawson, D. S., Ph.D. Tor.		Sharrard, J. A., M.A. Tor. Lectr.
	Asst. Prof.	<i>Engineering, v. infra</i>
Melburn, Myrtle E., B.A.	Demr.	<i>English</i>
<i>Chemistry</i>		Wilson, R. A., Ph.D. Qu. Prof.
Thorvaldson, T., B.A. Man., Ph.D.		Lothian, J. M., M.A. Glas. Prof.
Harv., F.R.S.C.	Prof.	Bayer, Jean G., M.A. Dal. Prof.
Manning, R. J., B.A. Tor., D.Sc.		Matheson, M., M.A. Qu. Prof.
Brist.	Prof.	Bentley, J. A., B.A. Dal., Ph.D.
Basterfield, S. L., B.Sc. Lond.,		Harv. Asst. Prof.
Ph.D. Chic.	Prof.	Brown, Edith, B.A. Lond. „ „
Grubb, A. C., Ph.D. Chic.	Prof.	Weir, A. R., B.A. Lectr.
Cameron, C. N., M.A., Ph.D. Chic.		McKenzie, Edith J., B.A. Sask.
	Prof.	Asst. Prof.
		<i>French</i>
		[Prof.
		MacDonald, J. A., M.A. Harv.

Cameron, Margaret, B.A. McG.,  
M.A. Rad., Doct. de l'Univ.  
de Paris Prof.

Boucher, Errol, B.A., M.S. Mont.  
Instr.

Laflamme, A. K., L. ès L. Laval  
Demr.

### *Geology*

Mawdsley, J. B., B.A. McGill,  
Ph.D. Princ. Prof.

Edmunds, F. H., B.Sc. Lectr.

### *German*

Steinhauer, H. J., M.A. Tor.  
Demr.

### *Hebrew*

Munro, M. F., M.A., B.D. Qu.  
[Lectr.]

### *History*

Morton, A. S., M.A. Edin. Prof.

Simpson, G. W., M.A. Tor. Prof.

Neatby, Hilda, B.A. Instr.

### *Household Science*

Rutter, Ethel, Ph.B. Chic. Prof.

Oxner, Bertha G., B.A.

### *Law*

[Asst. Prof. & Prof.]

Cronkite, F. C., LL.B. Harv.

Corry, J. A., B.C.L. Ox. Prof.

Shepherd, F. A., B.A., LL.B. Prof.

Moxon, A., B.C.L. Ox. Lectr.

Estey, J. W., M.A., LL.B. Harv.  
Lectr.

Sibbald, A. S., M.A. Tor. Lectr.

### *Mathematics*

Ling, G. H., B.A. Tor., Ph.D. Col.,  
LL.D. Tor. Prof.

Dines, L. L., Ph.D. Chic. Prof.

Pyke, A. J., M.A. Tor. Prof.

Ferns, H. H., B.A. Instr.

### *Pharmacy*

Campbell, Alex. Emeritus Prof.

Woods, Esli, B.S.P. Dean.

Meuser, F. N. Instr.

Marvin, J. H. Instr.

### *Philosophy*

Sharrard, J. A., M.A. Tor. Prof.

Bateman, J. V., M.A. Dub. Prof.

Markle, W. B., S.T.D., Ph.L.  
Lectr.

### *Physical Training*

Griffiths, E. W. Instr.

Cartwright, Ethel M. Instr.

### *Physics*

Harrington, E. B., Ph.D. Chic.  
Prof.

MacKay, C. A., M.A. Dal., Ph.D.  
Princ. Prof.

Hamshire, J. L. Instr.

Currie, B. W., M.A. Instr.

### *Physiology*

Scott, J. M. D., M.A. St. And.,  
M.D. Edin., Ph.D. Camb.  
Prof.

### *Political Science*

Dawson, R. M., D.Sc. Lond. Prof.

### *Agriculture*

#### *Animal Husbandry*

Shaw, A. M., B.S.A. Tor. Prof.

Rutherford, W. J., B.S.A. Tor.  
Dean & Lectr.

MacEwen, J. W. G., M.Sc. Ames.  
Asst. Prof.

Kirk, W. G., B.S.A. Instr.

#### *Dairying*

Potts, A. E., B.Sc. Edin., M.S.A.  
Collins, M.A., B.S.A. Instr.

#### *Engineering, Agric.*

Greig, A. R., B.Sc. McG. Prof.

Hardy, A. E., M.S. Iowa Prof.

Frey, R. P., M.S. Iowa Instr.

Miller, H., B.S.A. Instr.

#### *Farm Management*

Allen, W., B.S.A., Ph.D. Corn.  
[Prof.]

#### *Field Husbandry*

Champlin, M., M.Sc. Sth. Dak.  
[Prof.]

Kirk, L. E., B.A., M.S.A., Ph.D.  
Minn. Prof.

Harrington, J. B., Ph.D. Minn.  
Prof.

#### *Horticulture*

Patterson, C. F., B.A. Tor., Ph.D. Ill.  
Prof.

#### *Poultry*

Baker, R. K., B.A. Manc. Prof.

Jaap, R. G., B.S.A. Instr.

#### *Soils*

Joel, A. H., B.Sc. Mich. Prof.

Edmunds, F. H., M.Sc. Liv. Prof.	Spencer, R. A., B.Sc. McG. Prof.
Larsen, H., B.Sc. Instr.	Phillips, E. K., B.E. Lectr.
<i>Veterinary Science</i>	
Hadwen, S., D.V.S. McG., F.R.S.C. Research Prof.	<i>Electrical E.</i>
Wright, N., V.S. Lectr.	Lovell, W. E., B.Sc.E.E. Manit. Prof.
Fulton, J. S., D.V.M. Pathologist.	<i>Mechanical E.</i>
Engineering, v. also Agric.	Greig, A. R., B.Sc. McG. Prof.
<i>Ceramic E.</i>	Fraser, I. M., B.Sc. McG. Prof.
Worcester, W. G. Prof.	<i>Extra-Mural Work</i>
<i>Civil E.</i>	Raynor, J. G., B.S.A. Man. Director.
MacKenzie, C. J., B.E. Dal., M.C.E. Harv. Dean and Prof.	Gordon, K. W., B.S.A. Man. Asst.
Williams, G. M., B.Sc. Neb. Prof.	De Lury, Abigail Dir. of Home-makers Clubs.

## AFFILIATED COLLEGES, ETC.

EMMANUEL COLLEGE, estab'd. 1879 for training native helpers at Prince Albert, transferred to its present site in the Univ. grounds in 1909. Principal, R. H. A. Haslam, M.A., D.D. Courses for Testamur, Lic.Th., B.D.

ST. CHAD'S, Regina (Church of England). Warden, G. N. Dobie, D.D.

ST. ANDREWS COLLEGE, Saskatoon. Principal, E. H. Oliver, M.A., Ph.D.

LUTHERAN SEMINARY, Saskatoon. Principal, Rev. H. W. Harms.

JUNIOR COLLEGES—Regina College; Champion Coll., Regina; Luther Coll., Regina; St. Peter's Coll., Munster; Sacred Heart Academy; Outlook Coll.; Moosejaw Collegiate.

COLLEGE OF PHYSICIANS AND SURGEONS; LAW SOCIETY; DENTAL COUNCIL; PHARMACEUTICAL ASSOCN.; ASSOCN. OF REGISTERED NURSES; VETERINARY ASSOCN.; ASSOCN. OF ARCHITECTS; INST. OF CHARTERED ACCOUNTANTS; OPTOMETRISTS; LAND SURVEYORS.

## GENERAL INFORMATION

Established by Act of the Provincial Legislature in 1907, the Univ. opened classes in Arts and Sciences in 1909. For early history and constitution, see *Year Book* for 1929. The site includes 1340 acres devoted to Agric. Education and Research, and a campus of 300 acres with a half-mile river frontage. The land, buildings, and equipment cost about \$3,800,000. The maintenance of the Univ. is partially provided for by assignments of revenue and legislative grants. The annual budget exceeds \$700,000.

The University conducts the LICENCE EXAMINATIONS for the following professions:—Medicine, Law, Dentistry, Accounting, Architecture, Nursing, Veterinary, Optometry, Pharmacy, Land Surveyors, Drugless Practitioners.

There are laboratories for the investigation of (1) animal diseases, (2) cereal chemistry, while special provision is made for research work in connexion with cement and concrete.

LIBRARY, 43,000 vols. LABORATORIES: Chem., Phys., Biol., Bact., Engin., Agric. Engin., Farm (830 a.), Agric. Exper. Fields (450 a.).

**FACULTIES.** Arts and Science, Agric., Law, Engineering, Pharmacy, Accounting, Medical Sciences, Education, Household Science.

**DEGREE COURSES.** 4 yrs., B.A., B.Sc., B.Acc., B.S.P. (Pharmacy), B.S.A. (Agric.), B.E. (Engin.), B.S.H. (Household Sci.); 4 yrs., B.S. Ed.; LL.B. (3 yrs.); combined B.A. and B.S.A., 6 yrs. This Univ. has the sole right to confer degrees (other than Theol.) in the Province.

**HIGHER DEGREES.** Examn. open to Bachelors of 1 yr. standing—M.A., M.Sc., M.S.A., M.Ed.

**DIPLOMAS AND CERTIFICATES.** A 3-yr. course in Agric. leads to the "Associateship in Agric." A 2-yr. certif. course is given in Pharmacy; a 1-yr. certif. course in Education for graduates in Arts or Science.

**OTHER COURSES.** Summer School in co-operation with Provincial Department of Education. Short Courses on Agricultural and allied subjects.

**INTERCHANGE OF PROFESSORS** with Alberta and Manitoba takes place regularly.

**FEES.** Tuition for degree course in Agric., \$60; Engin., \$60; Acc., \$60; Educ., \$60; Pharm., \$60; Med., \$80; Arts and Sc., \$6 each class.

**SCHOLARSHIPS FOR GRADUATES.** One in Arts or Sc., \$100 p.a.; one in Engin., \$50; one in Law, \$50; one in Agric., \$800.

**RESIDENCE.** Hostels for 120 men and 83 women. Board and room fees, \$8 or \$9 a week.

**UNIV. EXTENSION.** In Farming and Home Economics short courses by itinerant lecturers at local centres. Annual convention (one week) in winter; 6 weeks' course in summer for teachers and others, at the Univ., e.g. in Economics, Life Insurance. Bulletins, fairs and shows.

A 3-yr. course is given in the **PRE-MEDICAL SCHOOL**, including Anatomy and Physiology.

**PUBLICATIONS.** *Calendar* (April); *Agric. Bulletins*; *Sheaf*.

## THE YEAR 1928-29

**BENEFACTION.** Under will of the late Mr. Burford Hooke, \$650,000 for the promotion of Agric.

**NEW BUILDINGS.** Field Husbandry, Observatory, and Rink.

**NEW DEPARTMENTS.** Faculty of Household Science. Two more Junior Colls. recognized. Extra-mural work instituted, 1929.

**RETIREMENTS.** Dean Moxon, Law; Prof. Eaton, German; Prof. Alty, Physics.

**STUDENTS.** Full-time: total, 1394, including 29 graduates. Part-time: night classes, 118; Summer School, 210; short courses, 727.

**DEGREES.** B.A., 90; M.A., 9; B.Sc., 20; M.Sc., 7; B.S.A., 8; B.E., 12; B.Acc., 1; B.S.P., 4; LL.B., 11; LL.D., 0.

**DIPLOMAS:** Educ., 28; Pharm., 21; Agric., 7; Medicine, 11.

# UNIVERSITY OF TORONTO

with which are federated

VICTORIA UNIVERSITY,  
THE UNIVERSITY OF TRINITY COLLEGE, TORONTO, and  
ST. MICHAEL'S COLLEGE, TORONTO.

CHAIRMAN OF THE BOARD OF GOVERNORS—The Hon. and Rev. H. J. CODY, M.A., D.D., LL.D.

CHANCELLOR—The Rt. Hon. Sir WM. MULOCK, P.C., K.C.M.G., M.A., LL.D.

PRESIDENT—Sir ROBERT A. FALCONER, K.C.M.G., D.Litt., LL.D., D.D., D.C.L. Ox.

REGISTRAR OF THE UNIVERSITY AND SECRETARY OF THE FACULTY OF ARTS—J. BREBNER, B.A., LL.D.

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MEDICINE—E. S. RYERSON, M.D., C.M.

APPLIED SCIENCE AND ENGINEERING—W. S. WILSON, B.A.Sc.

HOUSEHOLD SCIENCE—CLARA C. BENSON, Ph.D.

EDUCATION—LYDA SWINARTON.

FORESTRY—R. C. HOSIE, B.Sc.F.

MUSIC—ANNIE W. PATTERSON, B.A.

SCHOOL OF GRADUATE STUDIES—NORA MACKENZIE.

DENTISTRY—C. C. ROUS, B.A.Sc.

BURSAR—F. A. MOURÉ, Mus.Doc.

LIBRARIAN—W. S. WALLACE, M.A.

SUPT. OF BUILDINGS AND GROUNDS—A. D'O. LE PAN, B.A.Sc.

DIRECTOR OF UNIVERSITY EXTENSION AND PUBLICITY—W. J. DUNLOP, B.A., B.Pæd.

WARDEN OF HART HOUSE—J. B. BICKERSTETH, M.A.

DIRECTOR OF UNIV. HEALTH SERVICE—G. D. PORTER, M.B.

MEDICAL ADVISER FOR WOMEN STUDENTS—EDITH GORDON, B.A., M.B., D.P.H.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>		Watt, J. C., M.A., M.D.	
Ferguson, W. S.	Lectr.		Assoc. Prof.
Grant, R. R. (A. and Bus.)	Lectr.	Linell, E. A., M.D. Manc., M.B., Ch.B.	
<i>Anatomy</i> , v. also Biol.	[Prof.		Assoc. Prof.
McMurrich, J. P., M.A., Ph.D.		Cates, H. A., M.B.	Asst. Prof.
J.Hop., LL.D. Mich., Cinn.		4 Assts., 26 Demrs.	

- Anthropology and Ethnology*, v. also Philos.  
McIlwraith, T. F., M.A. Camb. Asst. Prof.
- Architecture*  
Wright, C. H. C., B.A.Sc. Prof.  
Madill, H. H., B.A.Sc. Assoc. Prof.  
Arthur, E. R., M.A., B.Arch. Liv. Assoc. Prof.  
Dunnington-Grubb, H. B., B.S.A. Cornell  
Spl. Lectr. (Landscape A.).  
1 Asst., 3 Instrs.
- Astronomy*  
Chant, C. A., M.A., Ph.D. Harv. Prof.  
Young, R. K., B.A., Ph.D. Cal. Assoc. Prof.  
4 Assts.
- Bacteriology*, v. Med.—Path.
- Bio-Chemistry*  
..... Prof.  
Wasteneys, H., Ph.D. Col. Prof.  
..... Prof. (Zymol.).  
Borsook, H., M.B., Ph.D. Lectr.  
1 Demr., 4 Fellows, 4 Assts.
- Biology*  
Bensley, B. A., Ph.D. Col. Prof. (Zool.).  
Piersol, W. H., B.A., M.B. Prof. (Anat., Histol. and Embry.).  
Walker, E. M., B.A., M.B. Prof. (Inv. Zool.).  
Huntsman, A. G., B.A., M.B. Prof. (Marine B.).  
Coventry, A. F., B.A. Ox.  
Assoc. Prof. (Vert. Embry.).  
Baillie, W. H. T., M.A., M.D. Assoc. Prof. (Mamm. Anat.).  
Dymond, J. R., M.A. Assoc. Prof. (Syst. Zool.).  
MacArthur, J. W., A.B. Ober., M.A. Wabash, Ph.D. Chic. Asst. Prof. (Genetics).
- Craigie, E. H., B.A., Ph.D. Asst. Prof. (Comp. Anat. and Neur.).  
Harkness, W. J. K., M.A. Asst. Prof. (Limnobiology).  
Ford, Norma H. C., Ph.D. Lectr. 15 Demrs., etc.
- Botany*  
Thomson, R. B., B.A. Prof. (Plant Morph.).  
Jackson, H. S., A.B. Corn., Ph.D. Wisc. Prof. (Mycol.).  
Duff, G. H., Ph.D. Assoc. Prof. (Plant Physiol.).  
Sifton, H. B., Ph.D. Assoc. Prof. (Plant Morph.).  
Bailey, D. L., B.A. Qu., M.S., Ph.D. Minn. Assoc. Prof. (Plant Pathol.).  
Wright, Jessie G., Ph.D. Lectr. 23 Assts.
- Ceramics*, v. Engineering (Met.)
- Chemistry*, v. also Eng., Food  
Miller, W. L., B.A., Ph.D. Munich (Physical C.) Prof.  
Allan, F. B., Ph.D. (Org. C.) Prof.  
Kenrick, F. B., M.A., Ph.D. Leip. Prof.  
Ferguson, J. B., B.A. Assoc. Prof.  
Burt-Gerrans, J. T., Phm.B., Ph.D. (Electro-C.) Assoc. Prof.  
Rogers, L. J., B.A.Sc., M.A. Assoc. Prof.  
Funnell, W. S., M.A. Assoc. Prof.  
Martin, W. H., Ph.D. Asst. Prof.  
Gordon, A. R., Ph.D. Asst. Prof.  
Lorrman, F. R., M.A., Ph.D. Lectr.  
3 Demrs., 13 Assts.
- Civic Design*, v. Town Planning
- Classics: Greek*  
Owen, E. T., M.A. Prof. (C.).  
Hamilton, D. E., M.A., D.Paed. Assoc. Prof. (C.).  
Tait, M. D. C., B.A. Ox. Asst. Prof. (C.).

Robertson, J. C., M.A. Prof. (V.).  
 Robertson, H. G., B.A., Ph.D.  
     Chic. Assoc. Prof. (V.).  
 Adams, S. M., M.A.  
     Assoc. Prof. (T.).  
 Carr, H., B.A., LL.D. (Gk. and  
     Hist. of Philos.) Prof. (M.).  
 O'Toole, W. B., B.A. Lectr. (M.).

*Classics : Greek and Latin*

Norwood, G., M.A. Camb.  
     Prof. (C.).  
 Grube, G. M. A., M.A. Camb.  
     Prof. (T.).  
 MacKay, L. A., M.A. Lectr. (C.).  
 Morley, Susan G., M.A.  
     Lectr. (T.).  
 Iliffe, J. H., M.A. Camb.  
     Spl. Lectr. (V.).

1 Fellow (V.).

*Classics : Latin* [Prof. (C.).

Smith, G. Oswald, M.A. Ox.  
 Dale, E. A., M.A. Ox.  
     Assoc. Prof. (C.).  
 Bennett, F. G., B.A. Camb.  
     Lectr. (C.).  
 Cary, Ruth, B.A. Lond.  
     Lectr. (C.).  
 \*De Witt, N. W., B.A., Ph.D. Chic.  
     (Latin Lit.) Prof. (V.).  
 Westington, M. M., M.A.  
     Spl. Lectr. (V.).  
 Jolliffe, H. R., M.A. Qu.  
     Spl. Lectr. (V.).  
 Kirkwood, W. A., M.A., Ph.D.  
     Harv. Prof. (T.).  
 Woodcock, J. N., M.A. Ox.  
     Prof. (T.).  
 McBrady, R. Prof. (M.).  
 Muckle, J. T., M.A. Prof. (M.).  
 Walsh, J. B., M.A. Cath. U.A.  
     Assoc. Prof. (M.).  
 Estelle, M., M.A. Lectr. (M.).  
 St. John, M., M.A. Lectr. (M.).  
 1 Fellow (V.).

*Dentistry, v. infra*

*Economics, v. Pol. Econ.*

*Education, v. also Household  
 Sc., Music*

Pakenham, W., B.A., LL.D.  
     Prof. (School Admin.).  
 Sandiford, P., M.Sc. Manc., Ph.D.  
     Col. Prof.  
 Cornish, G. A., B.A. Prof.  
 Ferguson, W. C., B.A. Prof.  
 Jones, Geo. M., B.A. Assoc. Prof.  
 Coombs, F. E., M.A. Assoc. Prof.  
 Macpherson, W. E., B.A., LL.B.  
     Qu. Assoc. Prof.  
 Carlisle, J. O., M.A. Assoc. Prof.  
 Scarrow, A. N.  
     Lectr. (Manual Train.).  
 Halbus, F., B.A. McM.  
     Lectr. (Phys. Tr.).

17 Instrs.

*Embryology, v. Biol.*

*Engineering, Chemical, and  
 Applied Chemistry*

Bain, J. W., B.A.Sc. Prof.  
 Boswell, M. C., B.A.Sc., M.A.  
     Harv., Ph.D.  
     Prof. (Org. Chem.).  
 Ardagh, E. G. R., B.A.Sc.  
     Assoc. Prof.  
 Smith, E. A., M.A. McM. Lectr.  
 Crossley, T. L. Spl. Lectr.  
 2 Instrs., 4 Demrs.

*Engineering, Civil, and Applied  
 Mechanics*

..... Prof.  
 Young, C. R., B.A.Sc., C.E.  
     Prof. (Struct. Eng.).  
 Loudon, T. R., B.A.Sc.  
     Prof. (App. Mech.).  
 Smither, W. J., B.A.Sc.  
     Assoc. Prof. (Struct. Eng.).  
 Laing, A. T., B.A.Sc.  
     Assoc. Prof. (Highway Eng.).  
 Morrison, C. F., B.A., M.Sc. McG.  
     Lectr.

1 Instr., 1 Demr.

(G.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

\* On leave of absence.

*Engineering Drawing*

- Cockburn, J. R., B.A.Sc. Prof. (Descr. Geometry).  
 Wright, W. J. T., B.A.Sc. Asst. Prof.  
 Dunbar, W. B., B.A.Sc. Lectr.  
 4 Instrs., 5 Demrs.

*Engineering, Electrical*

- Rosebrugh, T. R., M.A. Prof.  
 Price, H. W., B.A.Sc. Prof.  
 Zimmer, A. R., B.A.Sc. Assoc. Prof.  
 Guest, W. S., B.A.Sc. Asst. Prof.  
 Smith, V. G., B.A.Sc. Lectr.  
 1 Instr., 6 Demrs.

*Engineering, Mechanical*

- Angus, R. W., B.A.Sc. Prof.  
 Allcut, E. A., M.Sc. Birm. Assoc. Prof.  
 ..... Assoc. Prof.  
 Taylor, R., B.A.Sc. Asst. Prof.  
 McIntosh, W. G., B.A.Sc. Lectr.  
 2 Instrs., 3 Demrs.

*Engineering, Metallurgical*

- Guess, G. A., M.A. Qu. Prof.  
 Newcombe, J. A., B.Sc. Lond. Asst. Prof.  
 Toomer, J. E., B.S., N.Carolina Asst. Prof.  
 Montgomery, R. J., B.Sc., Ceramic Engineer, Ohio Asst. Prof. (Ceramics).

*Engineering, Mining*

- Haultain, H. E. T., C.E. Prof.  
 King, J. T., B.A.Sc. Assoc. Prof.  
 Dyer, F. C., B.A.Sc. Assoc. Prof.  
 2 Demrs.

*English, v. also Philos.*

- Wallace, M. W., B.A., Ph.D. Chic. Prof. (C.).  
 Knox, R. S., M.A. Aberd., B.A. Ox. Prof. (C.).  
 Davis, H. J., M.A. Ox. Assoc. Prof. (C.).

Clawson, W. H., B.A. N.Br., M.A. Ph.D. Harv.

Assoc. Prof. (C.).  
 Macdonald, J. F., M.A.

Assoc. Prof. (C.).  
 Wookey, Gladys I., M.A. Lectr. (C.).

Endicott, N. J., B.A. Lectr. (C.).  
 Kirkwood, Mossie M., Ph.D.

Spl. Lectr. (C.).  
 Haddow, Adeline L., M.A. Ox. Spl. Lectr. (C.).

1 Instr. (C.).  
 2 Fellows (C.).

Edgar, O. P., B.A., Ph.D. J.H.U. Prof. (V.).

Auger, C. E., B.A. Prof. (V.).  
 Pratt, E. J., Ph.D. (Spl. Lectr. Dent. Students) Assoc. Prof. (V.).

Robins, J. D., M.A., Ph.D. Assoc. Prof. (V.).  
 2 Fellows (V.).

Simpson, H. C., B.A. Ox., M.A. Tor. & Harv. Prof. (T.).

Hodgins, L. C. A., M.A. Harv. Prof. (T.).

Cartwright, Mabel, B.A., LL.D. Assoc. Prof. (T.).

Perpetua, M., B.A. Assoc. Prof. (M.).

Margarita, M., M.A. Assoc. Prof. (M.) (Anglo-Saxon).

Dorothea, M. Lectr. (M.).  
 Athanasia, M., M.A. De Paul. Lectr. (M.).

1 Instr. (M.).

Lectrs. for Med. Students :  
 Daniher, E. L., B.A.

Van Every, J. F., B.A.

*Food Chemistry*

Benson, Clara C., Ph.D. Prof.  
 2 Instr., 2 Assts.

*Forestry*

Howe, C. D., M.S. Ver., Ph.D. Chic. Prof.

White, J. H., M.A., B.Sc.F., Ph.D.  
 Prof.  
 Millar, W. N., B.Sc. Penn., M.F.  
 Yale Assoc. Prof.  
 Dwight, T. W., B.Sc.F., M.F.  
 Yale Assoc. Prof.  
 Hosie, R. C., B.Sc.F. Lectr.

*French*

Jeanneret, F. C. A., B.A. Prof. (C.).  
 Will, J. S., B.A., Ph.D. Col.  
 Prof. (C.).  
 Green, F. C., M.A. St. And., Ph.D.  
 Cologne, D. de l'U. Paris, O.A.  
 Prof. (C.).

De Champ, St. E., B. ès L. Lyons,  
 O.I.P. Assoc. Prof. (C.).  
 Allen, L., Ph.D. Chic.

Assoc. Prof. (C.).  
 McKellar, H. S., B.A.  
 Assoc. Prof. (C.).

McAndrew, W. J., M.A.  
 Asst. Prof. (C.).  
 Andison, J. G., B.A. Man., A.M.,  
 Ph.D. Col. Asst. Prof. (C.).

Poirier, M., L. ès L. Lectr. (C.).  
 Cole, Freda A. C., M.A. Lectr. (C.).  
 Squair, Marion, M.A. Lectr. (C.).

Finch, R. D. C., B.A. Lectr. (C.).  
 2 Instrs. (C.).

Ford, H. E., M.A., Ph.D. Col.  
 Prof. (V.).  
 de Beaumont, V., A.M. Col.

Prof. (V.).  
 Lacey, A., A.M., Ph.D.  
 Assoc. Prof. (V.).

Rowell, Mary C., M.A.  
 Assoc. Prof. (V.).  
 Lasserre, H., B. ès L., B. ès Sc.,  
 L. en Dr. Assoc. Prof. (V.).

Cook, Alta L., B.A. Lectr. (V.).  
 Hicks, R. K., A.M. Harv.  
 Prof. (T.).

Fletcher, F. T. H., M.A. Birm.,  
 Dr. de l'U. Nancy  
 Assoc. Prof. (T.).

MacKay, Constance C., M.A.  
 Lectr. (T.).

\*Murray, W. H., B.A. Prof. (M.).  
 Bondy, L. J., M.A. Chic., Ph.D.  
 J.H.U. Prof. (M.).  
 Agnes, M., M.A. Lectr. (T.).  
 Bernard, M., M.A. Lectr. (M.).  
 Berchmans, M., A.M. Lectr. (M.).  
 1 Instr. (M.).

*Genetics, v. Biology**Geology*

Parks, W. A., Ph.D. Prof.  
 Moore, E. S., M.A., Ph.D. Chic.  
 (Economic G.) Prof.  
 MacLean, A., B.A. Assoc. Prof.  
 7 Assts.

*German, v. also Philol.*

Needler, G. H., B.A., Ph.D. Leip.  
 Prof. (C.).  
 Fairley, B., M.A. Leeds, Ph.D.  
 Jena Prof. (C.).

Hedman, T., Ph.B. Chic.  
 Assoc. Prof. (C.).  
 Holt G. E., M.A., Mus.B.

Asst. Prof. (C.).  
 Lang, A. E., M.A. Prof. (V.).  
 Surerus, J. A., B.A.

Assoc. Prof. (V.).  
 Addison, Matgt., B.A. Lectr. (V.).  
 1 Fellow (V.).

Young, A. H., M.A., D.C.L.  
 Prof. (T.).

Scott, Miss L. C., M.A.  
 Assoc. Prof. (T.).

*Histology, v. Biology**History*

..... Prof.  
 Flenley, R., M.A. Liv., B.Litt. Ox.  
 Prof.

Underhill, F. H., B.A., M.A. Ox.  
 Prof.  
 Wallace, W. S., M.A. Ox. Prof.

Brown, G. W., B.A., Ph.D. Chic.  
 Asst. Prof.  
 Glazebrook, G. P. de T., B.A.,  
 B.A. Ox. Lectr.

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

\* On leave of absence.

Proby, J. C. P., M.A., B.Litt. Ox.

Lectr.

Creighton, D. G., B.A., B.A. Ox.

Lectr.

McInnis, E., B.A., B.A. Ox.

Lectr.

### *History, Ancient*

..... Prof. (C.).

Cochrane, C. N., M.A. Ox.

Assoc. Prof. (C.).

..... Assoc. Prof. (C.).

Sissons, C. B., B.A., LL.D. Ottawa

Prof. (V.).

1 Instr. (V.).

### *History of Industrial Art*

Currelly, C. T., M.A. Prof.

Iliffe, J. H., M.A. Camb.

Asst. Prof.

### *Household Science, v. also Food*

Laird, Annie L., M.Sc. Drex. Prof.

Willard, Alice C. Asst. Prof.

\*McMillan, Eva M., Ph.B. Chic.

Lectr.

\*Valentine, Charlotte F., M.A.

Lectr.

Park, Edna W., M.A.

Lectr.

Copus, Mary A., M.A.

Lectr.

Courtice, Iva L., B.A.

Lectr.

Ockley, Laura L., B.A.

Assoc. Prof. (Coll. of Educ.).

Robertson, Alicia E.

Lectr. (Coll. of Educ.).

4 Instrs., 1 Asst.

### *Italian and Spanish*

Buchanan, M. A., B.A., Ph.D.

Chic. Prof.

Shaw, J. E., A.B., Ph.D. J.H.U.

Prof.

Goggio, E., A.B., M.A., Ph.D.

Harv. Assoc. Prof.

Patterson, G. C., B.A. Asst. Prof.

Cano, J., A.B. Tol., A.M., Ph.D.

Col. Asst. Prof.

Wickware, Helen M.

Lectr.

### *Law*

Kennedy, W. P. McC., M.A. Ox.,

Litt.D. Dub.

Prof. (L. and Political

Institutions).

Mackenzie, N. A. M., B.A., LL.B.

Dal., LL.M. Harv. Assoc. Prof.

..... Asst. Prof.

Macdonald, Adelaide H. G., M.A.

Lectr.

Clute, A. R., B.A., LL.B.

Spl. Lectr. (Ltd. Cos. and

Com. Law).

Laidlaw, R. E., B.A.Sc.

Spl. Lectr. (Engin. L.).

### *Library Science*

Barnstead, Winifred G., B.A. Dir.

Bassam, Bertha Lectr.

7 Spl. Lectrs.

### *Mathematics*

[Prof.

De Lury, A. T., M.A., LL.D. West.

Fields, J. C., B.A., Ph.D. J.Hop.,

F.R.S. Research Prof.

Mackenzie, M. A., M.A. Camb.

Prof.

Beatty, S., Ph.D.

Prof.

Chapelon, J., D. ès Sc. Paris. Prof.

Pounder, I. R., M.A., Ph.D. Chic.

Assoc. Prof.

Webber, W. J., B.A. Camb.

Assoc. Prof.

Stevenson, A. F. C., M.A. Camb.

Asst. Prof.

Robinson, D. A. F., M.A.

Asst. Prof.

Lougheed, W. J., M.A., B.Paed.

Assoc. Prof. (Coll. of Educ.).

2 Instructors and 3 Fellows.

### *Mechanics*

Loudon, W. J., B.A. Prof.

Sheppard, N. E., M.A. Asst. Prof.

### *Medicine and Surgery, v. infra*

### *Metallurgy, v. Engin.*

(C.), (V.) = Univ. College, Victoria College.

\* On leave of absence.

- Military Studies* [Dir. Tracey, F., B.A., Ph.D. Clark, LL.D. McM. (Ethics) Prof. (C.).  
Cartwright, G. S., C.B., C.M.G.
- Mineralogy*  
Walker, T. L., M.A. Qu., Ph.D. Lane, W. B., M.A., Ph.D. Wisc (Ethics) Prof. (V.).  
Leip. Prof.  
Parsons, A. L., A.B. N.Y. Line, J., M.A., B.D., S.T.D. (Ethics) Assoc. Prof. (V.).  
Thomson, J. E., B.A.Sc. Kingston, G. F., M.A., B.D. King's, Ph.D. (Ethics) Prof. (T.).  
2 Demrs., 1 Asst. De Wulf, M., M.A., Ph.D., LL.D. Louvain Prof. (Mediæval P.) (M.).  
*Mining, v. Engin.* Roach, W. J., B.A. Prof. (Ethics) (M.).  
*Music* McCorkell, E. J., B.A., M.A. Cath.U.Am. (Prof. of English) Prof. (Social Eth.) (M.).  
Fricker, H. A., M.A., Mus.Doc. (Choral and Orch. M.) Lectr. Bellisle, H. S., B.A., M.A. Cath.U.Am. (Logic) Prof. (Logic) (M.).  
MacMillan, E., B.A., Mus.Doc. Ox. (Church M.) Lectr. Sullivan, B., M.A. (Soc. Eth.) Lectr. (M.).  
Mouré, F. A., Mus.Doc. (Hist. of M.) Lectr.  
Smith, L., Mus.B. Manc. (Theory of M.) Lectr.  
Bramfitt, G. N., B.A., B.Pæd. Lectr. (Coll. of Educ.).  
*Oriental Lang., v. also Hebrew* Garvey, W. F., B.A. West., Ph.D. Rome (Theodicy) Lectr. (M.).  
Taylor, W. R., Ph.D. Prof. (C.).  
*Physics, v. also Mechanics*  
Meek, T. J., B.A., B.D. McCorm., Ph.D. Chic. Prof. (C.).  
McLennan, J. C., O.B.E., Ph.D., D.Sc., LL.D., F.R.S. Prof.  
Irwin, W. A., M.A., D.B., Ph.D. Chic. Asst. Prof. (C.).  
Burton, E. F., B.A. Camb., Ph.D. Prof.  
McLaughlin, J. F., B.A., D.D. Prof. (V.).  
Satterly, J., M.A. Camb., D.Sc. Lond. Prof.  
Potter, W. A., M.A., B.D. Prof. (V.).  
Gilchrist, L., M.A., Ph.D. Chic. Assoc. Prof.  
Mercer, S. A. B., B.A. Harv., C.E., M.A. Wisc., Ph.D. Munich, D.D. Nashotah Prof. (T.).  
McTaggart, H. A., B.A. Camb., Ph.D. Assoc. Prof.  
Rollo, W., M.A. Aberd. Ireton, H. J. C., M.A. Lectr., Demr., and Res. Assoc.  
Lectr. (T.).  
McLay, A. B., B.A. McM., M.A., Ph.D.  
1 Fellow (C.).  
*Philosophy, v. also Classics* Lectr., Demr., and Res. Assoc.  
Brett, G. S., M.A. Ox. Prof. Leitch, J. D., B.Sc. Glas. Lectr. & Demr.  
Robinson, T. R., Ph.D. Assoc. Prof. Barnes, C., M.Sc. Leeds Lectr. & Demr.  
Anderson, F. H., Ph.D. Assoc. Prof. Burton, A. C., B.Sc. Lond., M.A. Lectr. & Demr.  
MacCallum, H. R., B.A. Asst. Prof. 17 Demrs., etc.

*Physics, Engineering, and Photography*

Anderson, G. R., M.A. Prof.  
 Jackson, K. B., B.A.Sc. Lectr.  
 4 Assts.

*Physiology*

Best, C. H., M.A., M.B., D.Sc. Prof.  
 Lond.  
 Irving, L., A.M. Harv., Ph.D. Assoc. Prof.  
 Stanf.  
 Taylor, N. B., M.B., F.R.C.S. Assoc. Prof.  
 Edin.  
 1 Demr. and 7 Fellows.

*Political Science*, v. also Law

Urwick, E. J., M.A. Ox.  
 (Acting Dir. Soc. Service) Prof.  
 Fay, C. R., M.A. Camb., D.Sc. Prof.  
 Lond. (Econ. Hist.)  
 Jackman, W., M.A. (Rural Econ.) Prof.  
 Jackson, G. E., B.A. Camb. Prof.  
 Innis, H. A., M.A. McM., Ph.D. Chic. Asst. Prof.  
 Kemp, H. R., M.A. Asst. Prof.  
 Bladen, V. W., M.A. Ox. Asst. Prof.  
 Brady, A., B.A., B.A. Ox., M.A., Ph.D. Asst. Prof.  
 Gibb, W. K., B.Comm. Lectr.  
 Perold, J. G., M.A. Lectr.  
 Shere, L., M.A. Man. Lectr.  
 Glazebrook, A. J. (Banking and Finance) Spl. Lectr.

*Psychology*

Bott, E. A., B.A. Prof.  
 ..... Assoc. Prof.  
 Blatz, W. E., M.A., M.B., Ph.D. Chic. Assoc. Prof.  
 Chant, S. N. F., M.A. Asst. Prof.  
 Ketchum, J. D., M.A. Lectr.  
 Phelan, G., M.A. St. Francis Xavier, Ph.D. Louvain Prof. (M.).  
 10 Class Assts., etc.

*Public Health Nursing* [Director. Russell, Edith K., B.A. King's Emory, Florence  
 Asst. Director and Lectr. 6 Spl. Lectrs.]

*Public Speaking* [Spl. Lectr. Greaves, W. H., M.A. Bost. 1 Instr.]

*Religious Knowledge*, v. *infra*, Federated Univs. and Colls.

*Social Service*, v. also Political Science

\*Dale, J. A., M.A. Ox. Dir. and Prof. (Soc. Science).

McGregor, Agnes Asst. Dir.  
 Cassidy, H. M., B.S., Ph.D. Asst. Prof.  
 Macmillan, J. W., B.A., D.D. Prof. (Sociology) (V.).  
 12 Lectrs. (part time).

*Spanish*, v. Italian

*Surveying*

Stewart, L. B., D.T.S. (S. and Geodesy) Prof.  
 Treadgold, W. M., B.A.

Assoc. Prof.  
 Crerar, S. R., B.A.Sc. Assoc. Prof.  
 Banting, E. W., B.A.Sc. Assoc. Prof.  
 Melson, J. W., B.A.Sc. Asst. Prof.

*Zoology*, v. Biology

*Zymology*, v. Bio-Chemistry

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

*Bacteriology*, v. Pathology

*Gynæcology*, v. Obstetrics

*History of Medicine*

Fotheringham, J. T., C.M.G., B.A., M.B., M.D., C.M., LL.D. Qu. Prof.

*Hygiene*, v. also Food [Prof. FitzGerald, J. G., M.D., LL.D. Qu. Defries, R. D., M.D., D.P.H.]

Assoc. Prof.

(V), (M.) = Victoria College, St. Michael's College.

\* On leave of absence.

- Fraser, D. T., B.A., M.B., D.P.H. Assoc. Prof.  
 Moloney, P. J., Ph.D. Asst. Prof.  
 Porter, G. D., M.B. Lectr.  
 McKinnon, N. E., M.B. Lectr. (H. and Epidem.).  
 Ross, Miss M. A., B.A. Dal. Lectr. (Vital Stat.).  
 McCullough, J. W. S., M.D., C.M., D.P.H. (Pub. Health Admin.) Lectr.  
 3 Demrs., 4 Class Assts.  
*Life Insurance*  
 Hutchison, H. S., M.B. Spl. Lectr.  
*Medical Ethics*  
 Cameron, I. H., M.B., LL.D. Edin., F.R.C.S. Eng. Edin. Spl. Lectr.  
*Medical Jurisprudence*  
 Crawford, M. M., M.B. Assoc.  
*Medical Research*  
 Banting, F. G., M.D., LL.D. Qu., D.Sc. Prof.  
 Cameron, G. C., M.D. Assoc. Prof.  
 4 Assoc., 1 Asst., 5 Fellows.  
*Medicine and Clinical Medicine*  
 Graham, Duncan A. L., M.B. Prof.  
 Howland, G. W., B.A., M.B. Asst. Prof.  
 Oille, J. A., M.D. Asst. Prof.  
 Clarkson, F. A., M.B. Asst. Prof. (Clin. Med.) (also Assoc. Prof. in Fac. of Dent.).  
 ..... Asst. Prof.  
 London, J. D., B.A., M.B. Asst. Prof.  
 Trow, E. J., M.B. Asst. Prof.  
 Campbell, W. R., M.A., M.D. Assoc.  
 Hutchison, H. S., M.B. Assoc.  
 Elliott, J. H., M.B. Assoc.  
 Parsons, H. C., M.A., M.D., C.M. Assoc.  
 26 Demrs., 2 Fellows.  
*Obstetrics and Gynaecology*  
 Hendry, W. B., B.A., M.B. Prof.
- McIlwraith, K. C., M.B. Assoc. Prof. (Obstet.).  
 Marlow, F. W., M.D., C.M., F.R.C.S. Eng. Assoc. Prof. (Gynæc.).  
 Frawley, N. D., M.B. Asst. Prof.  
 Wesley, R. W., M.B. Asst. Prof.  
 Scott, W. A., B.A., M.B. Asst. Prof.  
 Kinnear, J. A., M.D., C.M. Assoc.  
 10 Demrs., 2 Fellows.  
*Ophthalmology*  
 MacCallum, J. M., B.A., M.D. Prof.  
 Lowry, W. H., M.D., C.M. Asst. Prof.  
 ..... Asst. Prof.  
 4 Demrs., 1 Asst.  
*Oto-Laryngology*  
 Goldsmith, P. G., C.B.E., M.D., C.M. Prof.  
 Royce, G., B.A., M.B. Assoc. Prof.  
 Biggs, G. M., M.B. Assoc.  
 Boyd, E., B.A., M.B. Assoc.  
 7 Demrs.  
*Pathology and Bacteriology*  
 Klotz, O., M.B., M.D., C.M. McG. Prof.  
 Holman, W. L., B.A., M.D., C.M. McG. Prof. (Bact.).  
 Robinson, W. L., B.A. McM., M.B. Assoc. Prof. (Path.).  
 Detweiler, H. K., M.D. Assoc.  
 Magner, W., M.D., D.P.H. Spl. Lectr. (Path.).  
 Bates, J. E., B.A. McM., M.B. Lectr. (Path.).  
 Clifford, E. J., M.B. Lectr.  
 8 Demrs., 2 Assts., 3 Fellows.  
*Pathological Chemistry*  
 Harding, V. J., D.Sc. Manc. Prof.  
 Hunter, G., M.A., B.Sc. (Agric.) Glas. Asst. Prof.  
 1 Demr., 2 Assts., 3 Fellows.  
*Pediatrics*  
 Brown, A., M.B. Assoc. Prof.  
 Canfield, A. W., M.D., C.M. Assoc.  
 8 Demrs.

*Pharmacy and Pharmacology*

Henderson, V. E., M.A., M.B. Prof.

Lucas, G. H. W., Ph.D. Asst. Prof. (Pharmacol.).

2 Fellows, 3 Assts.

*Psychiatry*

Farrar, C. B., A.B. Harv., M.D. J.Hop. Prof.

4 Demrs.

*Radiology*

Richards, G. E., M.B. Assoc. 2 Demrs.

*Surgery and Clinical Surgery,*  
v. also Med. Jurisp.

Primrose, A., C.B., M.B., C.M., LL.D. Edin., F.R.C.S. Eng. Prof. (Clinical S.).

Bruce, H. A., M.D., F.R.C.S. Eng. Prof. (Clinical S.).

Starr, F. N. G., C.B.E., M.B., M.D., C.M. Prof. (Clinical S.).

Gallie, W. E., M.D., F.R.C.S. Eng. Asst. Prof.

Jones, W. W., B.A., M.B., F.R.C.S. Eng. Asst. Prof.

Beatty, H. A., M.B. Asst. Prof.

Wilson, G. E., M.B., F.R.C.S. Eng. Asst. Prof.

Cameron, M. H. V., M.B. Assoc. Clutterbuck, H. E., M.D., C.M., F.R.C.S. Edin. Assoc.

Robertson, D. E., M.D. Assoc.

Scott, W. A., B.A., M.B., F.R.C.S. Eng. Assoc.

Shenstone, N. S., B.A., M.D. Assoc.

Shuttleworth, C. B., M.D., C.M., F.R.C.S. Eng. Assoc.

Ryerson, E. S., M.D., C.M. Assoc. (also Asst. Prof. in Fac. of Dent.).

Graham, R. R., M.B. Assoc. 23 Demrs., 1 Fellow.

*Therapeutics*

Rudolf, R. D., C.B.E., M.D., C.M. Edin., F.R.C.P. Lond. Prof.

Johnston, S., M.A., M.D., C.M. Lectr. (Anæsth.).

8 Demrs.

*Dentistry**Applied Chemistry, Physics, and Metallurgy*

Cowling, T., M.A. McM., D.D.S. Prof.

Rous, C. C., B.A.Sc. Lectr.

*Clinical Dentistry*

Mason, A. D. A., D.D.S. Prof. 5 Assocs., 10 Demrs.

*Crown and Bridge Prosthesis*

Ante, I. H., D.D.S. Prof.

*Dental Anatomy*

Crouch, S. S., D.D.S. Prof.

1 Instr.

*Dental Histology, Pathology, and Bacteriology*

Graham, J. S., M.B. Prof.

2 Assocs.

*Dental Praxis*

Conboy, F. J., D.D.S. Prof.

*Dental Surgery and Anæsthesia*

Paul, E. W., D.D.S. Prof.

1 Assoc., 1 Instr.

*Operative Dentistry* [Prof.]

Webster, A. E., D.D.S., M.D.

1 Assoc.

*Oral Surgery* [Assoc. Prof.]

Risdon, F. E., M.B., D.D.S.

*Orthodontia*

..... Prof.

2 Assocs.

*Peridontology*

Box, H. K., D.D.S., Ph.D. Research Prof.

Trelford, W. G., D.D.S. Assoc. Prof.

Snell, C. A., D.D.S. Assoc. Prof.

*Preventive Dentistry*

Seccombe, W., D.D.S. Prof.

1 Assoc.

*Prosthetic Dentistry and Dental Technology*

Cummer, W. E., D.D.S. Prof.

Willmott, W. E., D.D.S. Assoc. Prof.

1 Instr.

## COLLEGES OF THE UNIVERSITY

UNIVERSITY COLLEGE. Principal—M. W. Wallace, B.A., Ph.D. ; Registrar—W. J. McAndrew, M.A.

VICTORIA COLLEGE. The Faculty of Arts of Victoria Univ., v. *infra*.

TRINITY COLLEGE. The Faculty of Arts of the Univ. of Trinity College, v. *infra*.

ST. MICHAEL'S COLLEGE. Superior—Rev. E. J. McCorkell, M.A. ; Registrar—Rev. B. Sullivan, M.A. Other Teachers : the Profs., etc., marked (M.) in above list.

## FEDERATED COLLEGES

ST. MICHAEL'S, v. *supra*.

KNOX COLLEGE, WYCLIFFE COLLEGE, and EMMANUEL COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*) : (1) Knox—J. D. Cunningham, M.A., D.D. (2) Wycliffe—W. R. R. Armitage, M.A. ; B. W. Horan, M.A., B.D. ; T. W. Isherwood, M.A. ; R. Mercer-Wilson, M.A. ; T. R. O'Meara, D.D., LL.D. ; C. V. Pilcher, M.A., D.D. ; W. E. Taylor, M.A., Ph.D. (3) Emmanuel—R. Davidson, M.A., Ph.D. ; J. Dow, M.A., D.D. ; A. Gandier, M.A., D.D., LL.D. ; A. J. Johnston, B.A., D.D. ; J. Line, M.A., B.D., S.T.D. ; J. F. McLaughlin, B.A., D.D. ; J. H. Michael, M.A. ; W. A. Potter, M.A., B.D. ; D. M. Ramsay, M.A., D.D.

## AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH. President—G. I. Christie, B.S.A. 17 Profs., 10 Assoc. Profs., and 16 Lectrs. 20 Demrs. and Instrs.

ONTARIO COLLEGE OF PHARMACY, TORONTO. Registrar-Treasurer—J. F. Roberts. Faculty—4 Teachers.

ONTARIO VETERINARY COLLEGE, GUELPH. Principal—C. D. McGilvray, D.V.S.

ALBERT COLLEGE, Belleville ; ALMA COLLEGE, St. Thomas ; ONTARIO LADIES' COLLEGE, Whitby ; ST. HILDA'S COLLEGE, TORONTO (the Women's Residence for Trin. Coll.).

ONTARIO COLLEGE OF ART.—Principal—G. A. Reid.

ROYAL COLLEGE OF DENTAL SURGEONS OF ONTARIO.

## GENERAL INFORMATION

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ., but it was not until 1843 that the College was inaugurated. For early history, see *Year Book*, 1929.

LIBRARY, 220,349 vols. and 76,876 pamphlets. Annual Grant for books, \$34,500 ; 2000 periodicals and serials received. The (Science) Library of the Roy. Can. Inst. is housed in the same building. MUSEUMS : The Royal Ontario Museums—Archæology, Geology, Mineralogy, Palæontology, and Zoology ; departmental museums ; Trinity has a Nat. Hist. and Archæol. Museum of its own ; the Agric. and Vet. Colleges, Knox, and the Faculty of Dentistry have each one.

LABORATORIES : in all depts. of Applied Science and Engineering as well

as Anat., Bio-chem., Biol., Bot., Chem., Geol., Household Sc., Hygiene, Mineralogy, Path., Physics, Psychol., Physiol.; described in *Bulletin* for Graduate Students. BOTANICAL GARDEN. OBSERVATORY. HOSPITALS available for Clinics: General, 750 beds; Children's, 262; St. Michael's, 383; Western, 120.

FACULTIES. Arts, Medicine, Applied Science and Engineering (Depts.—Archit., Civil E., Mining E., Mech. E., Chem. E., Elec. E., Metall. E.), Household Sc., Education, Forestry, Music, School of Graduate Studies, Dentistry. DEPARTMENTS. Social Service, Public Health Nursing, University Extension.

UNIVERSITY MATRICULATION BOARD. A Board created by the Univs. of Toronto, Queen's, McMaster, and Univ. of Western Ont. conducts and controls their annual Matricn. examns. The Dept. of Educn. of Ontario provides the machinery for holding these examns., and the Registrar of the Dept. is Secy. of the Board. A report signed by all members of the staff of the school concerned as to the standing of their candidates is considered in determining the results of the examn.

The subjects of Pass Matricn. are (1) Latin, (2) Engl., (3) Hist., (4) Maths., (5) Greek, (6) French, (7) German, (8) Spanish or Italian, (9) Physics and Chem., or (10) Agric. For Matricn. in Arts it is necessary to pass in (1) to (4) and any two of (5) to (10) for admission to the Pass Course, and with honour standing in at least 5 specified subjects for admission to an Honour Course. In certain cases foreign students may substitute their native language for Greek or French or German. Music is accepted as an option for Ancient History (the subject of one of the two History papers, the other being Canadian History).

For Matricn. in the Univ. of Toronto in Med. the requirements are (1) to (4), (9), and any one of (5) to (8), with honour standing in (2), (4), and one of (1) and (5) to (7); in Applied Sc. or Forestry—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2), (4), and one of (1), (5) to (8); in Household Science—(2), (3), (4), (9), and two of (5) to (8) for admission to the Pass Course, with honour standing in at least 4 specified subjects for admission to the Honour Course; in Music—the same as for admission to the Pass Course in Arts; in Dentistry—(1), (2), (3), (4), (9), and one of (5) to (8), with honour standing in (2), (4), and one of (1), (5) to (8).

Minimum age for admission to the Faculty of Arts, 16; Law, 21; Med., 17; Appl. Sc., 17; House. Sc., 16; Educn., 19; Forestry, 17; Dentistry, 16.

DEGREE COURSES. 4 yrs.—B.A., B.Com., B.A.Sc., B.Sc. (Med.), B.Sc. (Dent.), B.H.Sc., B.Sc.F., B.S.A. and B.V.Sc. (at Guelph), Phm. B.; 3 yrs.—Mus. B.; 5 yrs.—B.Arch., D.D.S.; 6 yrs.—M.D. Combined courses: B.A. and M.D.—7 yrs.

*Students from the British Isles* will be admitted to Medicine and Applied Sc. on submitting certificates of registration with the General Medical Council of Great Britain and the Institution of Civil Engineers.

Honour courses for the B.A. and B.H.Sc. are provided in Household Science.

The first 2 yrs. of the Law course may be taken in Arts in the Univ., the 3 remaining yrs. being taken at Osgoode Hall.

The B.Sc. (Med.) may be obtained by Med. students who, after the 4th or subsequent year of Med. study, having maintained therein a prescribed standard of proficiency, spend a year in an approved course of study, and show facility in reading one modern language besides English.

A student who has already graduated in the Faculty of Arts, Med., or Sci. of a Canadian or other recognized Univ. may complete the course in Dentistry in 4 yrs. instead of 5, provided he has covered certain prescribed subjects during his undergrad. course; and persons holding the L.D.S. of

one of the Med. authorities of Great Britain or the B.D.S. of approved Australian Univs. may be admitted in the Fac. of Dentistry without further examn., and to the final D.D.S. examns. on completing one full session at the Fac. of Dentistry.

**Higher Degrees.** M.A., obtainable by approved course of graduate study extending over 2 yrs. or, in the case of a B.A. in an Honours course, 1 yr.; Ph.D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required.

Ch.M. obtainable after 3 yr. course open only to graduates in Med. of a recognized Univ. The D.P.H. course (for Med. graduates) covers 11 months — 1 winter and 1 summer session.

The M.A.Sc. may be obtained by a B.A.Sc. of this Univ. who pursues a course of advanced study in the Faculty for 1 yr., presents a satisfactory thesis, and passes such examns. as may be prescribed.

The professional degrees, C.E., M.E. (Mining or Mech.), E.E., Chem.E. are open to candidates who, after obtaining the B.A.Sc. or diploma of the Faculty, spend 3 yrs. in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass examns. The F.E. may similarly be obtained by a B.Sc.F.

The B.Pæd. and D.Pæd. are open to graduates in Arts or Science of any British Univ. who hold a 1st class or High School Asst.'s certifi. of Ontario or its equivalent, and pass, after 2 yrs.' (D.Pæd.—3 yrs.) successful experience in teaching, prescribed examns. For the D.Pæd. a thesis is also required, and the candidate must have attended a summer course (or its equivalent) in each subject of examn.

The M.Sc. (Dent.) is open to graduates of the Faculty of Dentistry of Toronto or those with equivalent standing. It involves at least two years' work.

The Mus.D. is open to a Mus.B. of this or another Univ. of 3 yrs.' standing.

The Univ. publishes annually an announcement of *Graduate Courses*. All communications on the subject must be addressed to the School of Graduate Studies.

**TRAINING OF TEACHERS.** Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers'. The Educn. Dept. of Ontario grants certifs. on the results of Univ. examns., entitling the holders to teach in the High Schools. All teachers for High Schools and Collegiate Institutes must spend at least 1 yr. in the College of Education.

**FEES.** Students proceeding to the B.A. and enrolled in one of the Colleges of the Univ. attend lectures of Univ. Profs. and Lectrs. in the Fac. of Arts without payment of fees except for lab. supplies. The College Fees, which entitle students to attend lectures in their respective Colleges, are \$75 p.a. Medical students pay for tuition, lab. supply, hospital and annual examn., \$200 (\$150 for 1st year only) p.a. Certificate courses in the Coll. of Education cost \$25 p.a.; Forestry, \$125 p.a.; Applied Sci. and Engin., \$200 p.a.; Household Sci., \$100 p.a.; D.P.H., \$200 p.a.; Dentistry, \$200 p.a.

**SCHOLARSHIPS**, etc., open to graduates include \$120 for 2 yrs. for Divinity course in Trinity Coll.; Fellowship in Philos., \$300; \$1000 Prize for Sci. research or invention, open to all Canadians; \$1500 Scholarship in Med.; \$500 Fellowship in Anat.; \$750 Fellowships (one or more, each for 3 yrs.) for research in Med.: and others. War Memorial Scholarships in all facs.

Two *Mickle* Fellowships (each endowment \$25,000) awarded (1) to a member of medical profession as reward for advancement of practical knowledge in med. art or science, (2) to an undergraduate of fifth year in Medicine who obtains hons. at that examn. with highest marks. Nine Fellowships, each \$500 with free tuition for M.A. or Ph.D.; preference to graduates of Canadian Univs. outside Ontario. Eight of \$500 (tutorial Fellowships) open to graduates of any Univ.

**RESIDENCE.** University Houses accommodate 150 men, rent, \$4 per week; Queen's Hall, residence and board for 98 women at \$9.50 per week; Univ. Coll. Houses, residence and board for women (65), about \$9.50 per week; Victoria Coll. Halls for 132 men, about \$9 per week, and 144 women, \$200 to \$300 p.a.; Trinity Coll. provides for 80 men and 70 women; St. Michael's (R.C.) has also residences for men and women.

**PUBLICATIONS.** *President's Annual Report*; *Board of Governors' Report*; *Calendars*, April-May; *Graduate Studies Bulletin*; *Bulletins of the Dept. of University Extension*; *Medical Bulletin*; *Univ. Monthly*; *Can. Historical Review*; *Univ. Studies*; Students' Mags.—*'Varsity*, *Torontonensis*.

## THE YEAR 1928-29

**BENEFACTIONS.** E. C. Whitney Bequest, \$394,348; Eaton Endowment, annual payment, \$25,000; the late James Harris, James Harris Sch'ps., \$25,000; Laura Spelman Rockefeller Memorial for Child Research, \$10,000; Hastings Scholarships, \$10,000; the late Mrs. E. A. Wintercorbyn, \$8158; Donations in Faculty of Dentistry: \$5700 (including J. P. Bickell, \$3000; Anonymous Donor, \$1800); the late Dr. R. W. Rutherford, for Dr. James Page Rutherford Medical Res. Fund, \$5000; Graduation Fellowships: Imperial Oil, Limited, Sir Edward Kemp, Colonel R. W. Leonard and Robert Simpson Co., Ltd. (1929-30), \$500 each, and Canadian Pac. Ry. (1929-30), \$1500; University Schools Scholarships: H. J. Crawford, Dr. T. M. Porter, F. S. Corrigan, \$1000 each, and other gifts totalling \$295; Sir Joseph Flavelle and E. R. Peacock for Flavelle-Peacock Lectureship, \$2500; Hugh Innis Strang Memorial Scholarship, \$2497; Joseph Henderson Memorial Scholarship, \$2035; Morley Wickett Scholarship, \$2000; Political Science Fellowship (Anonymous), \$1400; Margaret Anna Brock Scholarship, \$1000; and for other scholarships and prizes, gifts totalling \$2742; for the Squair French Library Fund, \$66.

**DEATHS.** Starr, C. L., Prof. of Surg.; Gillespie, P., Prof. of Civ. Engin.; Hume, G. G., Prof. of Orthodontia; Windle, Sir Bertram, Special Lectr., Ethnol.; Vander Smissen, W. H., Prof. Emer.

**RETIREMENT.** Milner, W. S., Prof. of Ancient Hist.

**RESIGNATIONS.** Smith, G. M., Prof. of Hist.; Hunter, Andrew, Prof. of Bio-chem.; MacCallum, J. M., as Head of Dept. of Ophthalm.; Speakman, H. B., Prof. of Zymol.; MacPhee, E. D., Assoc. Prof., Psych.; Brown, A. Grant, Assoc. Prof., Ancient Hist.; Goldie, W., Assoc. Prof., Med. and Clin. Med.; Parkin, J. H., Assoc. Prof. Mech. Engin.; Coram, J. W., Assoc. Prof., Oper. Dentistry; Davison, J. F., Asst. Prof., Roman Law and Jurispr.; Young, G. S., Asst. Prof., Med. and Clin. Med.; Cleland, F. A., Asst. Prof., Obstetrics; MacLennan, D. N., Asst. Prof., Ophthalm.; Fife, B. O., Bothwell, J. A., Assocs. Clin. Dentistry; Gardiner, B. R., Robb, H. G., Assocs., Dent. Surg. and Anæsth.; Soucy, C. I., Lectr., Elec. Engin.

HONORARY DEGREES. *LL.D.*—Rt. Hon. Sir Austen Chamberlain, K.G., M.P. *D.Litt.*—His Excell. Paul Claudel, Ambassador of France, U.S.A.

STUDENTS. The total number of registered students was 6422, including Sch. of Graduate Studies, 414.

DEGREES. *LL.D.* (Honorary), 1; *D.Litt.*, 1; *Ph.D.*, 12; *M.A.*, 74; *M.D.*, 430; *Ch.M.*, 1; *M.A.Sc.*, 4; *D.Pæd.*, 3; *M.S.A.*, 2; *B.A.*, 452; *B.Comm.*, 40; *M.B.*, 15; *B.Sc. (Med.)*, 5; *B.A.Sc.*, 88; *B.Arch.*, 11; *B.H.Sc.*, 27; *B.Pæd.*, 25; *B.Sc.F.*, 9; *Mus.Bac.*, 2; *LL.B.*, 3; *D.D.S.*, 56; *B.Sc. (Dent.)*, 5; *B.S.A.*, 32; *B.V.Sc.*, 18; *Phm.B.*, 107.

# UNIVERSITY OF TRINITY COLLEGE, TORONTO

(*In federation with the University of Toronto.*)

CHANCELLOR—.....

VICE-CHANCELLOR AND PROVOST—Rev. F. H. COSGRAVE, M.A., D.C.L.

DEAN OF RESIDENCE—Rev. G. F. KINGSTON, M.A., B.D., Ph.D.

REGISTRAR—J. N. WOODCOCK, M.A. Ox.

DEAN OF ARTS—W. A. KIRKWOOD, M.A., Ph.D.

DEAN OF DIVINITY—THE PROVOST.

LIBRARIAN—S. M. ADAMS, M.A.

DEAN OF WOMEN—Miss M. CARTWRIGHT, B.A., LL.D., Principal of St. Hilda's.

BURSAR—SYDNEY H. JONES.

PROFESSORS AND LECTURERS: See consolidated list under the University of Toronto, names marked "T".

The University of Trinity College now confines its Univ. work to the two Faculties of Arts and Divinity. As an Arts College it forms an integral part of the Fac. of Arts of the Univ. of Toronto. The courses of instruction are prescribed by that Univ. Instruction is given in the Coll. in all subjects assigned to the Arts Colls. These include Greek, Latin, Greek and Roman Hist., Ancient Oriental Hist., Oriental Langs., Engl., German, French, Ethics, and Religious Knowledge. Instruction in other subjects of the Arts Courses is given by the Univ. Students of the Coll. receive the degrees of the Univ. of Toronto at the conclusion of their courses. As a Theological Coll., Trinity maintains its own Fac. of Divinity and confers degrees under the Charter granted to it in 1852. For early history, see *Year Book* for 1929.

LIBRARY, 35,000 vols.

A SCHOLARSHIP of \$120 p.a. for 2 yrs. in Divinity is open to students who have taken an Arts course in the Coll.

PUBLICATIONS. *Calendar* (May); *Trinity Univ. Review*, monthly; *St. Hilda's Quarterly Chronicle*; *Trinity Univ. Year Book*, annually.

THE YEAR 1928-29. Students: Full-time, 332. DEGREES: D.D., 1; Arts Degrees listed under Univ. of Toronto.

## VICTORIA UNIVERSITY, TORONTO

PRESIDENT AND CHANCELLOR—R. P. BOWLES, M.A., D.D., LL.D.

REGISTRAR—C. E. AUGER, B.A.

LIBRARIAN—F. L. BARBER, M.A., Ph.D.

Telegraphic Address : Viccollege, Toronto.

### PROFESSORS AND LECTURERS

[See also in the consolidated List under Toronto, names marked (V.).]

<i>Homiletics, Past. Theol., Ch. Hist.</i>	<i>Religious Pedagogy</i>	[Prof.]
Johnston, A. J., D.D. M. Cox Prof.	Langford, F. Th., B.A., M.R.E.	
<i>New Testament, Greek, etc.</i>	<i>Sociology</i>	[Prof.]
Michael, J. H., M.A. Wales.	MacMillan, J. W., B.A., D.D. Manit.	
G. A. Cox Prof.	<i>Systematic Theology</i>	
<i>Public Speaking</i>	The President, M.A., D.D. Wes.,	
.....	LL.D. Mt. A. & Tor.	
	Ed. Jackson Prof.	

### GENERAL INFORMATION

In 1928, by Act of the Legislature of the Province of Ontario, Victoria University, originally founded as the Upper Canada Academy in 1836, received an amended charter by which it continues in federation with the University of Toronto and in connexion with the United Church of Canada (formed in 1925 by the union of the Congregational, Methodist, and Presbyterian Churches in Canada), and includes within itself, under one Board of Regents and one Senate, two Colleges, Victoria College in Arts and Emmanuel College in Theology, the latter formed by the union of the Victoria University Faculty of Theology with Union Theological College (continuing Knox College in the United Church). For early history, see *Year Book* for 1929.

**LIBRARY.** Special features—Canadian verse and Tennysonianism (C. C. James's collections), Methodism in Canada, Education in Ontario.

**COURSES.** 4 yrs. in Languages, Anc. Hist. and Ethics for B.A., both Pass and Hons.; 3 yrs. for B.D., subsequent to graduation in Arts; 4 yrs.' conference course for probationers for the Ministry following a 2 yrs.' course taken on circuit; 3 yrs.' conference course for graduates.

**HOSTELS** for 210 men and 206 women students.

**PUBLICATIONS.** *Theological Calendar* (May); *Bulletin* (July); *Acta Vict.*, a students' monthly.

### THE YEAR 1928-29

**NUMBER OF STUDENTS.** Full-time: preparing for B.A., 754; Part-time (Household Sci.), 46; B.D. or Dipl.Th., 60. Part-time, 30.

**DEGREES.** B.A., 48; B.D., 7; Dipl.Th., 6.

# UNIVERSITY OF WESTERN ONTARIO, LONDON, ONT.

CHANCELLOR—Col., the Hon. HENRY COCKSHUTT.

CHAIRMAN OF THE BOARD OF GOVERNORS—A. T. LITTLE.

PRESIDENT—W. S. FOX, Ph.D., Litt.D., F.R.C.S.

REGISTRAR—Prof. K. P. R. NEVILLE, M.A., Ph.D.

BURSAR—W. WAUGH, M.D., LL.D.

LIBRARIAN—F. LANDON, M.A.

EXECUTIVE SECRETARY—Col. W. J. BROWN, V.D., B.S.A., LL.M.

DEAN OF WOMEN—RUBY E. C. MASON, M.A.

## PROFESSORS, LECTURERS, ETC.

### *Anatomy*

Macklin, C. C., M.B., M.A., Ph.D.

Tor. Prof.

Skinner, H. A., M.B. Tor.

Asst. Prof.

8 Instrs. and 3 Tech. Assts.

### *Bio-Chemistry*

Macallum, A. B., B.A., M.D.,

Ph.D. Tor. Prof.

James, A. A., M.D. Asst. Prof.

1 Asst.

### *Biology, v. Zoology*

### *Botany*

Hart, N. C., M.A. Tor. Prof.

Walker, A. R., M.A. Tor.

Asst. Prof.

2 Instrs.

### *Chemistry*

Gunton, J. A., M.A. McM., Ph.D.

Ill. Prof.

Best, N. C., Ph.C. Mass. C. Ph.

Assoc. Prof.

Burns, J. W., M.Sc. Queen's

Asst. Prof.

Sivertz, Christian, B.A.Sc. Br.

Col., M.Sc. and Ph.D. McG.

Instr.

Hunten, K. W., Ph.D. McG. Instr.

3 Assts.

### *Classics*

Neville, K. P. R., M.A. Harv.,

Ph.D. Corn. (C. & Hist.) Prof.

Auden, H. W., M.A. Camb. Prof.

Pemberton, R. E. K., M.A. Camb.

Asst. Prof.

2 Instrs.

### *Economics, v. Polit. Econ.*

### *Elocution*

Walker, Jean I. Instr.

### *English*

Tamblyn, W. F., M.A. Tor., Ph.D.

Col. Prof.

Spenceley, J. A., B.A. Tor., M.A.

Harv. Assoc. Prof.

Albright, Evelyn, B.A. Tor.

Asst. Prof.

Neville, J. T., M.A. Lectr.

Liddicoatt, Doris, M.A. Lectr.

Wrighton, Marion, B.A. Lectr.

Milne, W. S., M.A. Tor. Instr.

### *French and Italian*

Bassett, M. E., B.A. Mich., A.M.

Princeton Prof.

### *French and Spanish*

Collin, W. E., B. ès L. Toulouse,

M.A. Asst. Prof.

Turville, Dorothy, Ph.D. Col.

Asst. Prof.

2 Instrs.

*Geology*

Russell, J. W., M.A. McM. Prof.

*German*

James, N. C., B.A. Tor., Ph.D.

Halle, LL.D. Prof. Emeritus.

Allen, R. A., M.A. Tor., Ph.D.

Chic. Asst. Prof.

1 Instr.

*Hebrew*

[Prof.]

Waller, C. C., M.A. Camb., D.D.

*History*

Dorland, A. G., B.A. Qu., M.A.

Yale, Ph.D. Tor. Prof.

Landon, F., M.A. Assoc. Prof.

Maine, S. F., B.A., B.D. Vict.,

M.A. Chic. Asst. Prof.

*Mathematics*

Kingston, H. R., M.A. Qu., Ph.D.

Chic. Prof. Emeritus.

Prof.

..... Woods, A., M.A. Qu. Asst. Prof.

1 Instr.

*Medicine, v. infra**Physics*

[Prof.]

Dearle, R. C., B.A., Ph.D. Tor.

Allen, R. L., M.A. Mt. All.

Asst. Prof.

Foster, Willena, M.A. Tor.

Asst. Prof.

1 Instr.

*Physiology*

Miller, F. R., M.A., M.B. Tor.,

M.D. Mun. Prof.

Loughton, N. B., B.A. Tor., Ph.D.

Chic. Assoc. Prof.

Waud, R. A., M.D. Asst. Prof.

3 Assts.

*Political Economy*

Freeman, R., M.A. McM., Litt.B.

Ox. Assoc. Prof.

Reilly, E. E., B.S.A. Tor., M.S.

Wis. Asst. Prof.

Perrin, F. E., B.A. Tor. Lectr.

Carrothers, C. C., B.A., LL.B.

Lectr.

*Psychology*

[Lectr.]

Sage, G. B., M.A. Trin., D.D.

*Zoology*

Robertson, A. D., M.A. Tor. Prof.

Detwiler, J., M.A. Qu., Ph.D. Corn.

Assoc. Prof.

3 Instrs.

*Medicine* (for subjects of first 2  
yrs.—Anat., etc., v. *supra*)*Eye, Ear, Nose, Throat* [Prof.]

Thompson, S., M.D., F.A.C.S.

3 Instrs.

*Medicine*

[Prof.]

Hale, G. C., M.D., C.M. McG.

Childs, J. R. N., M.D. Assoc. Prof.

Campbell, F. J. H., B.A., M.D.,

M.R.C.P. Assoc. Prof.

Hughes, F. W., M.D. Asst. Prof.

Watson, E. M., M.D., M.R.C.P.

Edin. Asst. Prof.

15 Instrs.

*Obstetrics and Gynaecology*

Tew, W. P., M.B. Tor., F.R.C.S.

Edin. Asst. Prof.

Clegg, F. R., M.D. Asst. Prof.

2 Instrs.

*Pathology and Bacteriology*

Bullard, H. H., A.B. Missouri,

Ph.D. Tul., M.D. J.Hop. Prof.

Fisher, J. H., M.Sc., M.D.

Assoc. Prof.

Luney, F. W., M.D., D.P.H.

Assoc. Prof.

5 Instrs.

*Pediatrics*

Tillmann, W. J., M.D. Prof.

Lindsay, J. C., M.B. Tor.

Asst. Prof.

Ferguson, J. I., M.D. Asst. Prof.

2 Instrs.

*Pharmacology*

Crane, J. W., M.B. Tor. Prof.

2 Assts.

*Psychiatry*

[Assoc. Prof.]

Robinson, W. J., M.B. Tor.

2 Instrs.

*Public Health*

Slack, J. A., Ph.C. Mass., C.Ph.,  
M.D., D.P.H. Assoc. Prof.  
Downham, W. S., M.D., D.P.H.  
Lectr.

*Radiology*

McNeill, G., M.D., F.A.C.S. Prof.  
1 Instr.

*Surgery*

[Prof.  
Williams, H., M.D., F.R.C.S.  
Wilson, J. C., M.D. Assoc. Prof.  
Ramsay, G. A., M.D. Assoc. Prof.  
Busby, E. D., M.D.  
Asst. Prof. G.U. Surgery.  
Grant, A. J., M.D., F.A.C.S.  
Asst. Prof.  
4 Instrs.

## AFFILIATED INSTITUTIONS

HURON COLLEGE. Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ.: Most Rev. Archbishop of Huron, D.D., Lectr. in Bib. Exeg.; F. Anderson, M.A., B.D., D.D. Ox., Prof. of Ch. Hist.; Dean L. N. Tucker, M.A., D.C.L., D.D.

ASSUMPTION COLLEGE. Principal, Prof. of Greek, V. L. Kennedy, M.A. Tor. Sixteen other Profs. of Arts subjects.

URSULINE COLLEGE. Dean and Prof. of Mathematics, Mother M. Immaculate, B.A. Tor. Thirteen other Profs. of Arts subjects.

WATERLOO COLLEGE, Waterloo, Ont. Dean, Prof. of Hist., W. C. Froats, M.A., B.Pæd. Tor. Twelve others in Arts Department.

ALMA COLLEGE, St. Thomas, Ont. Principal, P. S. Dobson, M.A. Oxon. Eight other teachers.

## GENERAL INFORMATION

Incorporated by an Act of the Provincial Legislature in 1878 as a College in connexion with the Church of England, the Univ. has become, under the provisions of amending Acts of 1908 and 1923, absolutely undenominational in its government, which is under provincial and municipal control.

FACULTIES. Colleges of Arts, Medical School, Public Health.

DEGREE COURSES. 4 yrs. (from Junr. Matricn.), B.A.; 1 or 2 yrs., M.A. and M.Sc.; 6 yrs., M.D. Attendance on part of the classes may be dispensed with by the Senate, but all students must have attended lectures in the Univ. for at least 2 yrs. before they can graduate. D.P.H. and C.P.H.N., C.I.N. and C.H.A. courses (1 yr.) provided for graduates in Med. and graduate nurses respectively.

PUBLICATIONS. *Calendar* (May); *Report of Faculty of Public Health* (May); *Medical School Announcement* (May); *Univ. Gazette*, weekly during term.

## THE YEAR 1928-29

RETIREMENTS. Profs. N. C. James and W. J. Patterson.

HONORARY DEGREES. LL.D.—Edward Johnston, G. B. Sage.

STUDENTS. Full-time, 866, including 7 graduates. Part-time, 194, incl. 6 graduates.

EXTENSION. Summer School, 98. Extra-mural, 87.

DEGREES. M.A., 4; M.D., 25; LL.B., 1; B.A., 105; B.Sc., 1; Certif. of Public Health (Nursing), 2; Certif. of Instructor in Nursing, 2.

# NEWFOUNDLAND MEMORIAL UNIVERSITY COLLEGE AND NORMAL SCHOOL

**PRESIDENT.** J. L. Paton, M.A. Camb.

**PROFESSORS.** Hatcher, A. G., M.A. McG. (Maths.); Hunter, A. C., M.A. Ox., B.A. Lond., D. ès L. Paris (Engl. and French); Hogg, J. C., M.A. Camb. (Chem.); Sleggs, G. F., M.Sc. Liv. (Biol.).

**LECTURERS.** Fraser, A. M., M.A. Edin. (Hist. and Econ.); Baker, H. A., D.Sc. Lond. (Geol.); Hunter, Mrs. A. C., M.A. Denver (Spanish and French); Bevan, R. T., L.R.A.M., A.R.C.O. (Music).

**PRINCIPAL OF THE NORMAL SCHOOL.** S. P. Whiteway, B.Sc. Columbia, LL.D. Mt. Allison.

The College, built by the Government as a War Memorial, was opened in 1924.

The curriculum covers the first two years of the Univ. Courses in Arts, Pure Sci., Engin., and Medicine. To students who have completed the work for the first and second years in the college third-year status is granted by the following Universities: (1) All the Univs. of the maritime Provs. (2) Toronto, in Arts. (3) Columbia, Harvard. McGill recognizes the first year's course of the Coll. as qualifying for admission to second-year courses, and is prepared to consider on its merits the case of any student who has completed his second year at the Coll. who may apply for admission to third-year status.

**ADMISSION.** Junior Matricn. of the Newfd. Council of Higher Educn., conducted by Coll. of Preceptors, London, or equivt.

**FEES.** For full course, \$40 p.a.

**EXTRA-MURAL COURSES** are provided in most Arts and Science subjects, also in Navigation, Mechanical Drawing, Building Construction, Marine Engineering.

A **SUMMER SCHOOL**, specially designed for teachers, is held in July.

The **LIBRARY**, 6000 vols., including gift from Rev. Dr. G. J. Bond of books of late Sir Robert Bond, sometime Premier of Newfd.

**SCHOLARSHIPS.** A Leaving Schol'p of \$300 has been specially endowed.

Acadia offers annually one schol'p of \$125, and Mt. Allison one of \$125 and one of \$62.50. These schol'ps. are tenable for 2 yrs. Dalhousie offers annually one schol'p. of \$200, tenable for one year.

Students of the College are eligible for Rhodes Scholarships.

## THE YEAR 1928-29

**STUDENTS.** Full-time, 94; Normal School, 99; Extra-mural, 464.

# THE IMPERIAL COLLEGE OF TROPICAL AGRICULTURE, ST. AUGUSTINE, TRINIDAD

CHAIRMAN OF THE GOVERNING BODY—Sir JAMES CURRIE, K.B.E., C.M.G., M.A.

VICE-CHAIRMAN—Lieut.-Col. Sir DAVID PRAIN, C.M.G., C.I.E., F.R.S.

PRINCIPAL—GEOFFREY EVANS, C.I.E., M.A.

COMMISSIONER OF AGRICULTURE—Prof. H. A. BALLOU, M.Sc.

ASSISTANT COMMISSIONER OF AGRICULTURE—G. A. JONES, Dip.Agric. Bangor.

SECRETARY—Sir ALGERNON ASPINALL, C.M.G., C.B.E., B.A., 14 Trinity Square, London, E.C.3.

REGISTRAR—A. G. HOWELL, St. Augustine, Trinidad.

## PROFESSORS AND LECTURERS

<i>Agriculture</i>	[Prof.	Briant, A. K., M.A., Dip.Agric.,
Wood, R. Cecil, M.A., Dip.Agr.	D.I.C.T.A.	Lectr.
Brown, D. H.	Lectr.	<i>Sanitation and Tropical Hygiene</i>

<i>Botany and Genetics</i>		Seagar, E. A., M.B., Ch.B.	Prof.
Cheesman, E. E., M.Sc. Lond.,		<i>Sugar Technology</i>	
A.R.C.S.	Prof.	Scott, W., B.Sc.	Prof.
Hunter, R. E., B.Sc.	Lectr.	Davies, J. G., D.I.C.T.A.	

<i>Chemistry and Soil Science</i>		Asst. Sugar Techn.
Hardy, F., M.A., Dip.Agr. Camb.		<i>Veterinary Science</i> [Lectr.
	Prof.	Metivier, Capt. H. V. M., O.B.E.,
Turner, P. E., B.Sc. Lond., F.I.C.		B.Sc.Vet.Sc. Lond., M.R.C.V.S.,
(Seconded)	Lectr.	<i>Zoology and Entomology</i> [Prof.
Croucher, H. H., B.Sc.	Lectr.	Ballou, H. A., M.Sc. Mass. Agr. Coll.

<i>Economics</i>		Urich, F.W., F.E.S., V.D. Asst.Prof.
Shephard, C. Y., B.Sc. (Econ.)		Watts, C. T., A.M.I.Mech.E.
Lond.	Prof.	Engr. and Tech. Asst.
		Corbin, L. A.

Librarian and Sub-Editor:		Manager, Milner Hostel.
Gianetti, G. G., M.A., Dip. Agr.		<i>Banana Research</i>
(Econ.).		Wardlaw, C. W., B.Sc., Ph.D.,
<i>Mycology and Bacteriology</i>		F.R.S.E.
Briton-Jones, H. R., D.Sc. Lond.,		Pathologist.
Ph.D.	Prof.	McGuire, L. P., M.Sc., Ph.D.,
		D.I.C.
		Physiologist.

## GENERAL INFORMATION

Incorporated in Sept. 1921 as the outcome of recommendations made by the Tropical Agricultural College Committee (appointed by Viscount Milner in 1919) in their Report (Cd. 562), the College aims at promoting the study of and conducting research in Tropical Agriculture in suitable surroundings and creating a body of British expert agriculturists well versed in the knowledge of the cultivation of land in the tropics, of chemists, and of scientific advisers possessing an intimate knowledge of the means of combating pests and diseases. The College buildings are at St. Augustine, near St. Joseph, Trinidad, on land

granted by the Govt. of Trinidad and Tobago. The Imperial Department of Agriculture, which was founded in 1898 and was amalgamated with the College on April 1, 1922, is administered by the Commissioner of Agriculture. The post of Commissioner of Agriculture was separated from that of Principal of the College as from April 1, 1927, and is now held by the Professor of Entomology. He serves as a Liaison Officer between the College and the several island governments. He supervises the botanic and experiment stations located at St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands, and advises the Government of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda in agricultural matters, including the teaching of agriculture in schools. The Staff was strengthened by the appointment on July 1, 1929, of an Assistant Commissioner of Agriculture. The College publishes monthly *Tropical Agriculture*. On the transfer of the headquarters of the Department to Trinidad in Sept. 1922 the services of all the officers were retained on the staff of the college, and remain available for the work of the Department.

**RECENT DEVELOPMENTS.** The Foundation Stone of New Buildings and Laboratories was laid by Sir Samuel Wilson, Governor of Trinidad and Tobago, on January 14, 1924. An Instructional sugar factory, towards which British sugar machinery manufacturers are contributing plant worth £20,000, was opened in 1925. A Low Temperature Research Station for work on bananas and other tropical fruits has just been started. It is financed by the Empire Marketing Board. An Agricultural Field Office, and a new Chemical Block, in which the Dept. of Sugar Technology is also housed, have recently been completed. The Milner Hostel and College Dining Hall were completed in 1927.

The College was re-incorporated by Royal Charter, dated Nov. 23, 1926.

The income of the College is derived from contributions by the principal West Indian colonies, Nigeria, the Gold Coast, Sierra Leone, the Empire Marketing Board, the Empire Cotton Corporation, and the British Cotton Growing Association.

The academic year extends from October 1 to June 30.

**COURSES.** (1) Three-years' Diploma Course for giving a thorough training in the science and practice of T.A. to students intending to become tropical planters, investigators, or experts in different branches of Agr. Science or Technology; (2) one-year course in elementary Agr. Science for students unable to afford (1), with some practical acquaintance with the scientific side of tropical planting and the more up-to-date and efficient methods of production and management; (3) courses for Agr. officers selected for Colonial service in T.A. departments.

**POST-GRADUATE RESEARCH.** Facilities are provided for work in connexion with problems arising in T.A., and more especially those connected with plant pathology, agronomy, physiological botany, and sugar technology.

**TUITION FEES:** £50 p.a., but a limited number of students from contributing Colonies and industries are admitted, on the nomination of the respective local Govts. and industries, without the payment of tuition fees; other students from contributing Colonies, £25 p.a.; Foreign Students, £100 p.a.

Further particulars are obtainable from either the Secy. at 14 Trinity Sq., London, E.C.3, or the Registrar, St. Augustine, Trinidad, B.W.I.

## THE YEAR 1928-29

**STUDENTS.** Full-time, 55; graduates, 27; preparing for diploma, 18; special course, 7. Refresher Course students, 3. Diplomas obtained, 3.

# THE UNIVERSITIES OF AUSTRALIA

ADELAIDE	MELBOURNE	QUEENSLAND, BRISBANE
SYDNEY	TASMANIA, HOBART	WESTERN AUSTRALIA, PERTH

## GENERAL DESCRIPTION

[Summary, corrected to 31st August 1929, of information issued in June 1919 by an Administrative Committee of the Australian Universities through the Education Service of the Australian Imperial Force of which the Committee was a part.]

THERE is a University in the capital city of each of the States in the Commonwealth, and consequently they are situated at great distances from one another and in diverse climates. The mean annual temperatures range between about  $70^{\circ}$  at Brisbane and  $54^{\circ}$  at Hobart. Western Australia's nearest neighbour is Adelaide, which is about 1600 miles away by the shortest route. There is, naturally, not much moving about of students from one to another; but in the three younger some of the principal professional courses are not yet provided, and it frequently happens that a student after working in one of them for a year or two transfers to one of the older and more central Univs. where he is granted status in his professional course. As the Univs. are not all uniformly developed, they cannot be quite uniform even in their requirements for entrance. But they exercise all possible reciprocity in the interchange of students. They also give students who come from British Univs. the same status as at Home.

**THE COLLEGE SYSTEM.** When the Univs. of Sydney and Melbourne were founded provision was made for the establishment of "Colleges of Residence in connexion with different religious denominations." So there came into existence at Sydney, and on the Univ. grounds, "St. Paul's" (Church of England), "St. John's" (R.C.), "St. Andrew's" (Presb.), "Wesley" (Meth.), and, in 1925, as an extension of St. John's, a Hall for women; the Women's College (1890) is undenominational. Similarly at Melbourne, "Trinity" College (C. of E.) was opened in 1872, and was followed by "Ormond" (Presb.), "Queen's" (Meth.), and "Newman" (R.C.). Associated with Trinity and Newman respectively are Janet Clarke Hall and St. Mary's Hall, for women students. Queensland has "Emmanuel" (Presb.), "St. John's" (C. of E.), "King's" (Meth.), and an "undenominational" Women's Coll., as well as St. Leo's (R.C.). Adelaide has made a beginning with St. Mark's College (C. of E.), opened in 1925, and St. Andrew's College (Presbyterian), opened in 1928. The first College in Western Australia, "St. George's" (C. of E.), will be completed in 1930. All these are self-governing and receive no financial aid from the Univ. They accommodate and teach only a small proportion of the whole number of Australian students; but their importance and influence on Univ. life are not to be gauged by this circumstance.

**CONSTITUTIONS.** The outstanding feature of the Australian Univ. constitutions is the definite and considerable part taken by the State in appointing members of their governing bodies. This is due to the large contributions made to them out of public funds. The newest Univs. have admitted divers other persons, such as representatives of commercial, industrial, scientific, and educational societies, or benefactors, to participate with their graduates in the election of senators or councillors. The constitution of Sydney is the simplest; that of Queensland is outwardly the most comprehensive in its legal conception of the Univ. as "a body corporate consisting of Senate, Council, and graduate and undergraduate members." In Melbourne by a recent revision of the constitution undergraduates elect 2 members of the governing body (Council). In Western Australia undergraduates are enrolled by Act of Parliament in a "Guild" which is given a representative on Convocation, the electing body that may also disallow or propose amendments in any legislation of the Senate. The nomenclature is not consistent. The governing body may be called in one place "Senate," in another "Council"; and the assembly of graduates may be called "Senate"—a term never applied to the professorial body. Sydney and Western Australia have whole-time administrative heads.

**ADMISSION.** Attempts have been made to devise a common matricn., but have been given up. The reason lies in difference of policy as to the part to be taken by entrance examination as a qualifying test, and as to requisite subjects. Generally speaking, matriculation requirements include passing a recognized examn. (school-leaving, matricn., etc.) in English, another approved language (at Sydney, *e.g.*, Latin, Greek, French, German, Italian, or Japanese), Mathematics, and one or more other subjects. Special facilities are offered for matriculation in some Univs. and in some faculties to persons who have attained the age of 25 yrs., provided (Sydney) they give evidence of distinct educational merit and are recommended by a three-fourths majority of the Faculty of Arts and approved by the Senate. In Queensland such persons are admitted on passing a special Adult Matriculation Examn.

**THE UNIVERSITY AND THE PROFESSIONS.** The Univ. has always at least one professional school. Thus Queensland's School of Engineering has a high repute. Western Australia is making a specialty of Agriculture. Tasmania has schools of Law, Engineering, and Commerce. Sydney, Melbourne, and Adelaide have each a wide range of schools.

The Engineering schools give a thorough practical training. Rather high entrance requirements are called for in each of the Univs. The curricula extend over 4 yrs. (W. Australia, 5 yrs.), and are arranged with the definite view of giving a sound knowledge of the properties of materials, and the principles of Maths., Phys., Chem., and Mechanics underlying all engineering work, before specialized professional subjects are taken. Owing to several large bequests the Russell School of E. in Sydney is the most fully equipped. It maintains separate departments for Civil, for Mechanical and Electrical Engineering, for Mining and Metallurgy, and for Engineering Technology. The corresponding Schools in Queensland and Melbourne are also well equipped, and those

of Adelaide, Tasmania, and W. Australia, although less comprehensive, are efficient. Systematic arrangements are made for students to obtain practical experience in workshops or in the field during vacations. As a rule graduates in Civil E. enter the State or Federal Public Works Depts., which carry out practically all the large national engineering works, very little in the way of Public Services being left to private enterprise. The experience thus to be gained is very good, although it must be admitted that the emoluments are relatively low. A considerable number of engineering graduates, however, are now being engaged for municipal works and private enterprises. Many graduates in Mining E. have been absorbed in the mining industries of Australia, but a great number—probably the majority—find their way to the larger mining centres of the world, where the financial rewards are usually greater. There is a good deal of industrial and commercial engineering in Australia, and men wishing to have the freer scope which this offers usually take the courses in Mech. and Elec. E. In Archit., especially the domestic kind, there is a promising outlook in practically all parts of the Commonwealth. The Sydney School of Archit. is fully developed with a Professor and a degree. Melbourne also has a degree course, and has an "Atelier" for advanced design work, but as yet no Prof. of Archit.

The Medical Schools of Sydney, Melbourne, and Adelaide are among the best in the Empire. They comply with the requirements of the General Medical Council, and there is full reciprocity, in respect of registration of degrees as qualifications to practise, between the U.K. and Australia. The greater part of the Australian medical profession is now trained in these 3 Univs., and distinguished teachers and research workers are continually being brought in to supplement their staffs. High positions are also held by their graduates outside Australia. It is generally felt by Australian medical men who have had experience in Europe among men trained in the Schools of the U.K., that their own training has been even more practical. It is thoroughly British in scope and method, but, in the proportion of hospital facilities to the number of students, it claims to have some advantages over the training received by the average British student. In any case, it remains true that Australian medical education has reached a high standard, and the equipment of the Faculty is always good and often excellent. Sydney has the advantage of an immense public hospital, on its own grounds, with several others but a short distance away. In Melbourne general hospitals containing 500 beds, and women's and children's hospitals, are close to the Univ. The Genl. Hospl. at Adelaide is within half a mile of the Univ., and after the 3rd yr. the greater part of students' time is spent in it. The work done may also be supplemented by study, after graduation, in the "Australian Institute of Tropical Medicine" at Townsville in Queensland; and a Diploma in Trop. Med. is attainable. The Hall Research Institute in connexion with the Melbourne Hospl. and the Univ. departments provide facilities for post-graduate work.

The Waite Agricultural Research Institute at Adelaide offers special facilities for the Study of plant pathology, soil chemistry and entomology.

In all the Univs. the Faculty of Arts is becoming, with due help from the Faculty of Science, a professional school for teachers. Sydney, Melbourne, and Western Australia have Profs. of Education who are also heads of the State Training Colleges. Adelaide has the State Director of Education on its Ed. Committee and Council, and gives a Diploma to graduates in Arts and Science who take a prescribed course of prof. study and have proper experience of teaching. There is a course in Ed. at Queensland, and every facility is given to teachers to graduate in Arts. An excellent professional equipment for teaching can now be obtained in Australia, and the material rewards of teaching are likely to increase.

Vet. Science, the practice of which is as yet legally controlled in only three States, is now regularly entered in one of these (Victoria) through a Univ. course of study. In N.S.W. its legal constitution recently followed the institution of a Faculty of Vet. Science at the Univ. of Sydney. In N.S.W. and Western Australia, whose Univ. also has a Dept. of Vet. Science, the law requires such qualifications for vet. practice that a Univ. training will become the natural approach to the profession in that State.

PERIODS OF STUDY. The Univ. requires not less than 3 yrs.' study for a B.A. or B.Sc.—4 yrs. if the B.Sc. is taken with Honours. The curriculum for the first degree in Med., formerly 5 yrs., has been lengthened in Melbourne to  $5\frac{1}{2}$ , in Sydney and Adelaide to 6. The time needed to graduate in law may vary; the Melbourne course takes 4 yrs., but Sydney and West. Aust. allow Arts graduates to do their law in 2 yrs. To graduate in Engin. requires 4 yrs., in West Aust. 5 yrs.; in Vet. Science, in Agric., in Economics, and in Dentistry also 4 yrs. (Adelaide, 5 yrs.), subject to certain minor variations; in Architecture, 5 yrs.

ACADEMIC TERMS. In Australia qualifications are reckoned in "Years" and "Courses." But each "Year" is divided into "Terms." The number of Terms in the Year is usually 3. The Year begins in March and ends in Nov. or Dec. The "Long Vacation" comprises Dec., Jan., and Feb., which are the warmest months. Melbourne has 4 terms, the First of 12 weeks; the Second of 10; the Third of 10; and the Fourth, or Examn. Term, of 4. Tasmania also has 4 terms. Queensland has 3 terms and 2 Examn. Periods. Arrangements have been made to secure the coincidence of the 1st-2nd and 2nd-3rd inter-term vacations of the Australian Univs.

FEES AND COST OF LIVING. The cost of living varies a good deal in different parts of Australia. A student will probably not notice much difference between Sydney and Melbourne in this respect. But anywhere he will find that £225 a year gives him quite sufficient means, for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 35s. a week. Meals at the cost of 6d. to 2s. 6d. can generally be obtained at the University by members of "Unions" and others. Sydney Univ. Union has a Refectory seating 450, and one half of it is open to all members of the University and their guests, Adelaide

Univ. has a Refectory seating 400, and Melbourne has a Union building and separate dining-rooms seating upwards of 350. A developed Union at an Australian University also provides all the comforts of a non-residential Club for about £1 a year. Rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms.

Residence at a College is optional. College fees for residence and tuition range from 80 to 120 gs. per annum. Thus Wesley College, Sydney (Methodist), charges 28 gs. a term for resident students; Ormond, Melbourne (Presb.), from 110 to 120 gs. a year for residence during terms, according to the course being taken. St. John's, Queensland (Anglican), has fees of £21 per term, and the rates at the other Queensland Colls. are practically the same. The fees at St. Andrew's and at St. Mark's College, Adelaide, range from 110 to 125 gs. per annum. Special arrangements can always be made for residence during vacations; for an example, Ormond then charges 2½ gs. a week. Many men live in College on a total income of not more than £150 a year; it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming but costly ancient customs. The assistance from Scholarships and Bursaries is generous.

A list of Univ. Fees payable at Adelaide, Melbourne, and Sydney is given below. Queensland has composition fees for complete degree courses, which are from 12 to 18 gs. a year in Arts, 20 gs. in Science, and 21 gs. in Engineering, in addition to moderate fees for examn. and graduation. The corresponding fees at Tasmania are £15 to £20 in Arts, £20 in Science, £22, 10s. in Engineering. W. Australia charges fees for examns., laboratory materials, degrees, and certifs., but tuition fees only to overseas students.

*Adelaide.* Matriculation, £1 : 1s. ; *Ad Eundem Statum*, £2 : 2s. ; Admission to Degrees : Arts, Science, Master Engineering, Master of Laws, £5 : 5s. ; LL.D., M.D., M.S., D.D.Sc., Mus.Doc., D.Sc., D.Litt., £10 : 10s. ; LL.B., £7 : 7s. ; B.E., £3 : 3s. ; Mus.Bac., £4 : 4s. ; Diplomas in Educ., Econ., Commerce, Music, £2 : 2s. Degree Courses in Arts about £65 ; Science about £125 ; Engineering, £135 ; Law about £90 ; Medical, 6 years, £240 (excluding Hospital, £56 : 14s., and Midwifery Clinics, £5 : 5s.) ; Dental, 5 years, £250 ; Music, £53 : 11s. ; Tuition Conservatorium, £14 : 14s. minimum.

*Melbourne.* Matricn., 2 gs. ; Degree, 10 gs. ; Degree Courses in Arts, 3 yrs., about 72 gs. ; Science, 30 gs. per yr. ; Agric., 4 yrs., 81 gs. ; Laws, 4 yrs., about 102 gs. ; Med., 5½ yrs., £258 (including Hospl. Fees) ; Engin., 4 yrs., 120 gs. ; Vet. Sc., 4 yrs., £100 ; Music, 3 yrs., at conservatorium, 32 gs. p.a.

*Sydney.* Matricn., £3 ; Degree in Arts, Econ., Sc., Agric., or Vet. Sc., £3 ; M.D. and M.S., £20 ; other Degrees, £10 ; Degree Courses in Arts, 3 yrs., £75 ; Econ., 4 yrs., £96 ; Law, £90 (Arts subjects additional) ; Med., £234 (excluding Hospl. Attendance, 21 gs., and practical Midwifery, 5 gs.) ; Dent., 4 yrs., £150 (excluding Dent. Hospl. £15 p.a.) ; Science, 3 yrs., £99 ; Engin., 4 yrs., £154 (Min. and Met., £168) ; Agric., 4 yrs., £118 : 10s. ; Vet. Sc., 4 yrs., £114 ; Archit., 5 yrs., £171.

**FREE PASSAGES TO EUROPE.** The following free first-class passages are granted annually to Australian and New Zealand Univs. for graduates proceeding to Europe to continue their studies : Adelaide, 3 ; Melb., 4 ; Queensland, 3 ; Syd., 4 ; Tasm., 2 ; W. Aust., 3 ; N.Z., 3 ; available by any of the following Lines : Aberdeen, Blue Funnel, Orient, P. & O., and, for N.Z. graduates only, N.Z. Shipping and Shaw, Savill & Albion.

#### CONFERENCE

After a conference held at Sydney in May 1920 the Australian Univs. established a Standing Advisory Committee to deal with matters of common interest. The headquarters of the Committee are Melbourne University. The Chancellor of Melbourne Univ. acts as Convener of the Committee, and the Registrar as Honorary Secretary.

A meeting has been held annually since 1921. Among the topics discussed at the meeting of the Advisory Committee in Aug. 1929 were : Forestry, Pension Schemes, Federal and State Public Services, Mining and Metallurgical Education, Surgical degrees, Overseas appointments, Library expenditure, Mathematics at public examns., Broadcasting, *Ad eundem* degrees, and degrees in Agriculture.

#### AUSTRALIAN STUDENTS IN THE HOME UNIVERSITIES, v. Appendix XXII.

**UNIVERSITY EXTENSION LECTURES** were instituted at Sydney Univ. in 1886 and at Melbourne in 1891. In 1913 Workers' Educational Associations were formed in all the States to give effect to a movement for bringing the Univs. into closer relationship with the masses of the people. The movement was fostered by State grants and grew rapidly. Each Univ. co-operates with the W.E.A. in the formation of a joint committee, which appoints tutors and supervises the work with the help of a Univ. officer—the Director of Tutorial classes. A federal W.E.A. for Australia has its central office in Melbourne. The total number of students throughout Australia is about 6000, the greater number taking three-years' courses. In addition to these courses a great many preparatory classes, study circles and summer schools are organized by the Assocn., numerous courses of public lectures are delivered, educational conferences promoted, and an extensive book service is carried on. A correspondence study department has been inaugurated in connexion with the Univs. of Queensland and W.A. In Western Australia provision has been made for extension lectures in Perth and suburbs and in country centres.

**STATISTICS** of University teachers, students, and finance are published annually by the Commonwealth Bureau of Census and Statistics in the official Year Book.

# UNIVERSITY OF ADELAIDE

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—HON. SIR G. J. R. MURRAY, K.C.M.G., B.A., LL.M.,  
Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—SIR WILLIAM MITCHELL, K.C.M.G., M.A., D.Sc.

REGISTRAR—F. W. EARDLEY, B.A.

LIBRARIAN—R. J. M. CLUCAS, B.A.

## PROFESSORS, LECTURERS, ETC.

*Accountancy*  
Mills, E. W., A.C.U.A. Lectr.

Shier, W. A., A.F.I.A. Lectr.

*Agriculture*  
Waite Agricultural Research  
Inst. :

Richardson, A. E. V., D.Sc. Melb.,  
M.A.

Dir. and Waite Prof. of  
Agric.

Prescott, J. A., M.Sc. Manc.

Waite Prof. of Agric. Chem.

Davidson, J., D.Sc. Entomologist.

Samuel, G., M.Sc. (Plant Path.).

Trumble, H. C., M.Ag.Sc.

Agronomist.

Davies, J. G., B.Sc., Ph.D.

Asst. Agronomist.

Sim, A. H., B.Sc., B.Sc. (Agric.)

Asst. Chem.

Best, R. T., M.Sc. Asst. Chem.

Phipps, I. F., B.Ag.Sc., M.Sc.,

Ph.D. (Cornell)

Asst. in Plant Genetics.

Piper, C. S., B.Sc. Asst. Chem.

Pike, K. A. Field Officer.

*Animal Products Research  
Foundation*

Dawbarn, Miss M. C., B.Sc. (Thy-  
roid Research)

*Anatomy*

..... Elder Prof.

Mead, C. S., B.A., M.B., B.S.

Lectr.

*Bio-Chemistry*  
Robertson, T. Brailsford, Ph.D.

Calif., D.Sc. Prof.

Mitchell, M. L., B.Sc. Lectr.

*Botany*  
..... Prof.

Wood, J. G., M.Sc. Lectr.

Black, J. M. Hon. Lectr.

Colquhoun, T. L., B.Sc. Melb.

Asst. Lectr.

*Chemistry*  
Macbeth, A. K., M.A. St. And.,  
D.Sc. Belf., F.I.C.

Angas Prof.

Cooke, W. T., D.Sc. Lectr.

Pennycuik, S. W., D.Sc. Q'ld.

Lectr.

Finlayson, H. H.

Asst. Lectr. & Demr.

*Classics and Comp. Philol. and  
Lit.*

FitzHerbert, J. A., M.A. Camb.

Hughes Prof.

Hollidge, D. H., M.A. Lectr.

*Commerce, v. also Acctcy.*

Brebner, C. C., LL.B. (Indust. and  
C. Law) Lectr.

Mayo, H., LL.B. Lectr.

Mackay, A. L. G., M.A., Dip.Ed.,  
M.Ec. Syd. (Public Adm. and  
Fin.) Lectr.

Melville, L. G., B.Ec., F.I.A.

(Statistics) Prof.

- Browne, C. Harding, A.C.U.A., F C.P.A. (Com. Practice) Lectr.  
 Biaggini, E. G., B.A. (English) Tutor.  
*Dental Science*, v. *infra*  
*Economics*, v. also Com.  
 Melville, L. G., B.Ec., F.I.A. Prof.  
 Mackay, A. L. G., M.A., Dip.Ed., M.Ec. Syd. Asst. Lectr.  
*Education* [Lectr.  
 Schulz, A. J., Ph.D. Zur., M.A.  
*Engineering*, v. also Mining  
 Chapman, R. W., M.A., B.C.E. Melb., M.I.E. Aust. Prof.  
*Engineering, Elec.*  
 Clark, E. V., B.Sc. Lectr.  
*English Lang. and Literature*  
 Strong, Sir Archibald, M.A. Liverpool, Litt.D. Melb. Jury Prof.  
 Kirwood, A. E. M., M.A. Q'ld. Lectr.  
 Bald, R. C. Asst. Lectr.  
*French*  
 Crampton, J., B.A. Lond. Lectr.  
 Crampton, Mary H. St. Cl. Tutor.  
*Geology and Mineralogy*  
 Mawson, Sir Douglas, O.B.E., F.R.S., B.E., B.Sc. Syd., D.Sc. Prof.  
 Madigan, C. T., M.A. Ox., B.Sc. Lectr.  
*German* [Lectr.  
 Schulz, A. J., Ph.D. Zur., M.A.  
*History, Modern*  
 Hancock, W. K., B.A. Melb. Prof.  
 Oldham, W., M.A. Asst. Lectr.  
*Law*  
 Campbell, A. L., B.E., B.A. Syd. Bonython Prof.  
 Reed, G. S., LL.B. (Evidence and Procedure) Lectr.  
 Benham, E. W., LL.B. (Property L.) Lectr.  
 Reed, G. S., LL.B. (Private International Law) Lectr.  
 Brebner, C. C., LL.B. (Roman L.) Lectr.  
 Mayo, H., LL.B. (Jurisprudence) Lectr.  
*Mathematics*  
 Wilton, J. R., M.A. Camb., D.Sc. Elder Prof.  
 Sanders, H. W., B.A. Camb. Lectr.  
 Statton, J. W., B.Sc. Asst. Lectr.  
*Medicine*, v. *infra*  
*Mining Engineering*  
 Gartrell, H. W., M.A. Col., B.A., B.Sc. Lectr.  
*Music* [Elder Prof  
 Davies, E. H., Mus.Doc.  
*Philosophy*  
 Stewart, J. McKellar, D.Phil. Edin. Hughes Prof.  
 Davey, Constance M., M.A., Ph.D. Lond. Evg. Lectr.  
*Physics* [Elder Prof.  
 Grant, Kerr, M.Sc. Melb.  
 Burdon, R. S., B.Sc. Lectr.  
 Fuller, G. R., B.Sc. Asst. Lectr.  
*Physiol. and Human Pharmacol.*  
 Hicks, C. Stanton, M.Sc., M.B., Ch.B. N.Z., Ph.D. Camb., F.I.C. Lond. Prof.  
 Matters, R. F., M.D., Ch.M. Syd., F.R.C.S. Edin., D.G.O. Vienna Asst. Lectr. and Demr. in Physiol.  
*Zoology*  
 Johnston, T. Harvey, M.A., D.Sc. Syd. Prof.  
 Deland, E. W., B.Sc. Demr.  
 Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)  
*Anæsthetics*  
 Brown, Gilbert, M.B., Ch.B. L'pool Instr.  
*Diseases of Children, Med.*  
 Mayo, Helen M., M.D., B.S. Clin. Lectr.

*Diseases of Children, Surg.*

Gilbert, H., M.B., B.S. Melb.,  
F.R.C.S. Clin. Lectr.

*Ear, Nose, and Throat* [Lectr.

Pulleine, R. H., M.B., C.M. Syd.

*Forensic Medicine*

Rogers, R. S., M.A., M.D., Ch.M.  
Edin. Lectr.

*Gynaecology and Obstetrics*

Wilson, T. G., M.D. Syd., F.R.C.S.  
Edin. Way Lectr.

*Tutors in Obstetrics :*

Beard, J. R. S. G., M.B., B.S.  
Dawson, J. B., M.D. Lond.  
Matters, R. F., M.D., Ch.M. Syd.,  
F.R.C.S. Edin., D.G.O. Vienna  
Swift, H. B., M.B., B.S. Camb.

*Materna Med. and Therap.*

Fry, H. K., B.Sc., M.B., B.S. Lectr.

*Medicine and Therap.*

De Crespigny, C. T. C., M.D., B.S.  
Melb., M.R.C.P. Lectr.  
Hetzl, K. S., M.D., B.S., M.R.C.P.  
Lond. Tutor.

*Medicine, Clinical**Lectrs. :*

Hone, F. S., B.A., M.B., B.S.  
Ray, W., B.Sc., M.B., B.S.  
Cowan, D. R. W., M.B., B.S.

*Medicine, Psychol.* [Lectr.

Dorney, M. H., M.B., B.S. Melb.

*Ophthalmic Surg.*

Shorney, H. F., M.D. Melb.,  
F.R.C.S. Gosse Lectr.

*Pathology* [Marks Prof.

Cleland, J. B., M.D. Syd.  
Hone, Effie J., M.B., B.S. Melb.

*Demr.**Public Health & Preventive Med.*

Hone, F. S., B.A., M.B., B.S. Lectr.

*Surgical and Regional Anatomy*

Scott, M. L., M.B., M.S., F.R.C.S.  
Lectr.

*Surgery*

Newland, Sir H. Simpson, M.B.,  
M.S., F.R.C.S. Lectr.  
Lindon, L. C. E., M.B., M.S.,  
F.R.C.S. (Eng. and Edin.)  
Tutor.

*Surgery, Clinical and Operative*

Newland, Sir H. Simpson, M.B.,  
M.S. Lectr.

*Clinical Lecturers :*

Smeaton, B., M.B., B.S.  
Corbin, J., M.R.C.S., L.R.C.P.  
Scott, M. L., M.B., M.S., F.R.C.S.

*Clinical Teachers*

The Staff of the Adelaide and of  
the Children's Hospls.

*Commonwealth Cancer Research  
Fund*

Hill, F. McC., B.Sc., M.D. Cal.  
Res. Asst.

*Dental Science**Lectrs. : (Prosthetics).*

Edwards, H. T. J., D.D.Sc.  
Reid, F. W., B.Sc. (Metal.).  
Eustace, J. L., B.D.S. (Mat. Med.,  
etc.).  
Moore, A. P. R., D.D.Sc. (D. Surg.  
and Path.).  
Messent, P. S., M.B., M.S., F.C.S.A.  
(Surg.).  
Southwood, A. R., M.D., M.S.  
(Med.).

Swan, F. M., L.D.S., M.A.C. of  
Melb. (Operative Dentistry).  
Begg, P. R., B.D.Sc. Melb. (Ortho-  
dontics).  
Brown, Gilbert, M.B., Ch.B. Liv.  
(Anæsthetics).  
Campbell, T. D., D.D.Sc. (D.  
Anatomy).

*Demrs. :*

Mead, C. S., B.A., M.B., B.S.  
(Anatomy).  
Moore, A. P. R., D.D.Sc. (Opera-  
tive Technique).  
Brougham, L. A. M. (Prosthetic  
Technique).  
Brazil-Smith, R. J., B.D.S.  
Instr. Pros. Dent.

*Tutorial Classes*

Mackay, A. L. G., M.A., M.Ec.  
Syd., Dip. Ed., Director,  
assisted by 15 tutors.

## ASSOCIATED OR AFFILIATED INSTITUTIONS

**RESIDENTIAL:** ST. MARK'S COLLEGE, under management of Church of England, but open to men of all denominations. Opened for students in March 1925. Master: A. Grenfell Price, M.A. Ox., Dip. in Ed.

St. Andrew's College, in connexion with the Presbyterian Church in South Australia, but prescribing no religious test, was opened for students in March 1928. Master: R. J. P. Barbour, B.A.

**S. AUSTRALIAN SCHOOL OF MINES AND INDUSTRIES.** President, Hon. Sir L. Bonython. Unites with the Univ. in providing courses and exams. in Mining, Metall., and Engin. The Chancellor is Chairman of the Joint Board.

**ROSEWORTHY AGRICULTURAL COLLEGE.** Affiliated for parts of the B.Sc. course for Agric. students.

**TEACHING HOSPITALS ASSOCIATED WITH MEDICAL SCHOOL.** Adelaide General Hospital, 480 beds; Queen's Home (Maternity), 160 beds; Adelaide Children's Hospital, 120 beds.

## GENERAL INFORMATION

The University was established by Act of the Provincial Legislature in 1874 with endowments of £20,000 each from Sir W. W. Hughes and Sir Thomas Elder and a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000), as well as a site of 5 acres in the city, which has since been increased to 14 acres. The Govt. also provides an annual subsidy of 5 per cent on endowments; the subsidy is limited to £20,000. In 1911 the State Parliament sanctioned an additional annual grant, and took power to appoint five additional members of the Council, which, until then, consisted of twenty elected by the Senate. The grants have been increased by the State Parliament from time to time and now amount to £47,300, excluding a grant of £8500 to the Waite Agricultural Research Institute.

**ENDOWMENTS.** In addition to the private endowments mentioned above the Univ. has received the following benefactions: Sir T. Elder, £75,000 in 1897; the Hon. J. H. Angas, £10,000; Mr. R. Barr Smith and the members of his family, £20,000 for the Library, and Mr. T. E. Barr Smith, £32,000 for a Library building. Mr. Peter Waite bequeathed extensive estates, including a mansion and approximately £55,000; Mrs. Jane Marks, £30,000; Mrs. A. M. Simpson and Miss A. F. Keith Sheridan, £20,000. The Hon. Sir Langdon Bonython has given £40,000 for a Great Hall, and £20,000 for the Chair of Law. The family of the late John Darling has provided £25,000 for buildings; Mrs. G. A. Jury, £12,000 for a Chair of English Literature; Sir Josiah Symon, £10,000 for the Lady Symon building, the women's portion of the University Union; Sir John Melrose, £10,000 for the Chemical Laboratory at the Waite Institute. The total value of the endowments is £579,226 and the income in 1928 was £109,539.

**LIBRARY.** Over 78,000 volumes. **LABORATORIES,** Biol., Bio-Chem., Botany, Chem., Geol., Histol., Pathol., Physics, Physiol., Pharmacol., and Zool. The Univ. includes the *Elder Conservatorium of Music*, which has a staff of 18, and it assists in the management of a Public Library, Museum, and Art Gallery.

**SPECIAL LABORATORIES AND EQUIPMENT.** (1) Waite Institute for research in Agric. Chemistry, Plant Pathology (especially with regard to filtrable virus diseases), and the conducting of field agric. experiments and animal metabolism experiments. The Waite Institute has undertaken co-operative investigations

with the Commonwealth Council for Sci. and Ind. Research on Soil Surveys, Mineral Content of Pastures, and Plant Diseases; and with the Empire Marketing Board into mineral deficiencies of pastures. Its income is £25,000. (2) Field laboratory at Koonamore for investigation of plant regeneration in arid areas. (3) The Animal Nutrition Institute of the Council for Scientific and Industrial Research is within the Univ. grounds, and offers special facilities for investigations in animal nutrition.

**COLLECTIONS OF INTEREST TO SPECIALIST SCHOLARS.** Collection of Australian endoparasites. Prof. J. B. Cleland's collection of the higher Australian fungi (Basidiomycetes), by far the largest of its kind, is available for study by mycologists and forest pathologists. Collection of representative specimens from all the Australian opal fields. Anthropological collection of Australian skeletons. Collections of marsupial material.

**SPECIAL RESEARCH DEPARTMENTS.** The Sheridan Medical Research Foundation for the support of medical research. In 1922 Mrs. A. M. Simpson and Miss A. F. Keith Sheridan bequeathed property to the estimated value of £20,000 for the establishment of this foundation. The Animal Products Research Foundation, which conducts investigations in regard to the problems of animal nutrition. The Board of Anthropological Research engaged in Anthropological investigations concerning the aborigines of South Australia. The Anti-Cancer Campaign Committee directs research into the cause and cure of cancer.

**FACULTIES.** Arts, Science, Law, Medicine, Dentistry, Music, Agric. Science, Applied Science (including Staff of S. Aus. School of Mines and Industries).

**DEGREES.** Obtainable after 3 yrs.' course, B.A., B.Sc., B.Ag.Sc., Mus.Bac.; 4 yrs.', LL.B., B.E.; 5 yrs.', B.D.S.; 6 yrs.', M.B., B.S.

**HIGHER DEGREES.** Open to bachelors of 2 yrs.' standing, M.A., M.Sc., M.Ag.Sc., M.E., LL.M.; 3 yrs.', M.D., M.S., D.D.Sc., Mus.Doc.; 4 yrs.', D.Sc., LL.D., M.Sc., D.Litt.

**DIPLOMAS.** Applied Science (Mining, Metall., or Engin.—Civ., Elec., Mech., or Archit.), 4 yrs.' course; Commerce (A.C.U.A.) evening courses; Education (post-graduate); Music (A.M.U.A.), 3 yrs.'

A "Final Certificate in Law" for admission as a practitioner in the Supreme Court is obtainable by articulated clerks on a curriculum less extensive than that for the LL.B.

The Univ. conducts **PUBLIC EXAMNS.** of various grades, irrespective of those for its own degrees, etc., namely, in General Education—Intermediate, Leaving, and Leaving Honours; in Commercial Education—Intermediate and Leaving; and Music.

**SCHOLARSHIPS, etc., for graduates.** Angas Engineering, £200 p.a. for 2 yrs., not open to graduates of other Univs.; several smaller.

**RESIDENCE.** St. Mark's Residential College was incorporated in the Univ. in 1925, and St. Andrew's College in 1927.

**ADULT EDUCATION.** Tutorial classes were established in 1917. The subjects taught are Engl. Lit., Hist., Economics, Psychology, Philos., Public Speaking, Music, Singing, and General Science. At the Univ. the courses extend over 3 yrs. Four classes are held in country centres. Public lectures given occasionally.

**CALENDAR** pubd. in Feb. Price 3s. 6d. *Australian Journal of Experimental Biology and Medical Science*, issued quarterly, £1 : 1s. per annum.

GRADUATES' ASSOCN. Hon. Sec.—M. R. C. Kriewaldt, B.A., LL.B., Box 180, G.P.O.

MEDICAL SCIENCES CLUB. Hon. Sec.—Prof. C. S. Hicks, University.

## THE YEAR 1928, 1929

**NEW BUILDINGS.** The Lady Symon Building, the Animal Nutrition Research Laboratory for the Council for Sci. and Ind. Research and the Melrose Agricultural Research Laboratory at the Waite Institute have been completed. Pot Culture house, Insectary and additional glass houses have been erected.

**NEW POSTS.** The Professorship in Economics has been created, and Professor L. G. Melville, B.Ec., F.I.A., formerly Govt. Actuary in this State, has been appointed to the Chair.

**OTHER DEVELOPMENTS.** Night lectures supported by Govt. grant. A course of night lectures in Arts and Sci. subjects has been arranged, special lecturers being appointed.

The Council for Sci. and Ind. Research, and through it the Empire Marketing Board, are co-operating with the Waite Agric. Res. Inst. (*see above*); they have contributed £6000 towards a Laboratory building, and the Waite Institute will contribute £3000. The investigations to be supported by the Council for Sci. and Ind. Res. and the E.M.B. to the extent of £2783 p.a.

**CHANGES IN REGULATIONS.** Regulations have been adopted providing for degrees of B.Ag.Sci. and M.Ag.Sci.

**LEAVE OF ABSENCE** has been granted to Prof. Sir Douglas Mawson and Prof. T. Harvey Johnston to take part in an Antarctic Expedition; Prof. C. S. Hicks for research and clinical investigations at Cambridge and Vienna; Prof. W. K. Hancock for research at Oxford; Mr. H. W. Gartrell for investigations in Mining Engineering in U.S.A.; and to Mr. A. E. M. Kirwood for literary studies at King's Coll. Lond.

**RESIGNATIONS.** H. H. Woollard, Prof. of Anatomy, appointed Prof. of Anatomy at St. Bartholomew's Hospital, London.

**EXTENSION LECTURES.** Five courses (10 lectures in all) by five members of the staff.

**STUDENTS.** Total: full-time, 891; preparing for B.A. and B.Sc., 478; M.B., 103; LL.B., 77; for first degrees in Engin., 104; Dentistry, 20; Music, 6; Econ., 2; Commerce, 12; graduate students—in Arts and Sci. 76, Med. 2, Law 2, Engin. 2, Music 2. Part-time: total, 1423; graduates, Education and Econ. 14, Commerce 3; non-graduating students, Arts and Sci. 348, Law 3, Engin. 18, Dental 1, Econ. 11, Commerce 376, occasional Sci. 103, Massage 9, Music 55, occasional Music 536. Resident in Colls., 43. Tutorial Class students, 1316.

**DEGREES.** M.A., 5; B.A., 32; M.Sc., 6; LL.B., 8; M.B., 13; B.D.S., 4; B.Sc., 13; M.E., 1; B.E., 12; Mus.Bac., 2; Diploma in Applied Sci., 12; Diploma in Com., 26; Diploma in Music, 8; Final Certificate in Law, 7; Diploma in Educ., 5; Diploma in Econ., 2.

# UNIVERSITY OF MELBOURNE

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Sir J. H. MACFARLAND, M.A., LL.D.

VICE-CHANCELLOR—Sir JOHN MONASH, G.C.M.G., K.C.B., V.D., B.A.,  
D.Eng., LL.D.

REGISTRAR—J. P. BAINBRIDGE, F.I.C.A., F.C.I.S., J.P.

ASSISTANT REGISTRAR—S. S. ADDISON, M.B.E., B.Sc. Adel., J.P.

LIBRARIAN—LEIGH SCOTT, M.A.

## PROFESSORS, LECTURERS, ETC.

*Accountancy*, v. Com.

*Agriculture*, v. also Zoology

Wadham, S. M., M.A., Agr. Dip.  
Camb.

Prof. and Dir. of School.

Cameron, S. S., D.V.Sc.,  
M.R.C.V.S.

Lectr. (Animal Hus-  
bandry and Vet. Hyg.).

Archer, R. T. Lectr. (Dairying).

Wilson, H. C. Lectr. (Part I.).

French, C. H.

Lectr. (Ag. Entomology).

Adam, D. B., B.Agr.Sc.

Lectr. (Plant Pathology).

Davey, H. W.

Lectr. (Horticulture).

de Castella, F.

Lectr. (Viticulture).

McDonald, G. W.

Lectr. (Wool Classing).

Kendall, E. A., B.V.Sc.

Lectr. (Vet. Dietetics).

Raff, Janet W., M.Sc.

Lectr. (Entomology).

*Agric. Engineering* [Lectr.

Rennie, E. J. C., M.E. Adel.

*Anatomy*

Jones, F. Wood, D.Sc., M.B., B.S.  
Lond., F.R.S. Prof.

Jones, W. E. A. Hughes, M.D.,  
B.S. Lectr.

Hurley, L. E., M.D., M.S.  
Sr. Lectr.

*Anat., Radiological*

Flecker, H., M.B., Ch.M. Syd.  
Hon. Demr.

*Anat., Regional and Applied*

Searby, C. H. C., M.B., M.S.,  
F.R.C.S. Lectr.

*Architecture*

Gawler, J. S., F.R.V.I.A. Lectr.

Sutherland, G. J., Dip.Arch.  
Lectr.

Irwin, L., A.R.I.B.A.

Dir. of Atelier.

Clark, E. J., F.R.V.I.A. Lectr.

Good, Eileen M. F., Dip.Arch.  
Sr. Demr.

Alsop, R. H., F.R.I.B.A.,  
F.R.V.I.A. Hon. Lectr.

Ellis, R. O. Instr.

*Bacteriology*, v. Med.

*Bio-Chemistry*, v. Physiology

*Botany & Plant Physiology*

Ewart, A. J., D.Sc. Lond., Ox.,  
and Melb., Ph.D. Leip.,  
F.L.S., F.R.S. Prof.

McLennan, Ethel I., D.Sc.  
Sr. Lectr. (Botany and  
Plant Pathology).

Patton, R. T., D.Sc., M.F. Harv.,  
D.I.C. Lond.

Sr. Lectr. (Botany and  
Agric. Bot.).

Petrie, A. H. K., Ph.D. Sr. Demr.

*Chemistry*, v. also Bio-Chem.

Hartung, E. J., D.Sc. Prof.

Green, W. H., D.Sc. Sr. Lectr.

Davies, W., M.Sc. Manc., Ph.D.  
Ox.

Sr. Lectr. (Organic Chem.).

Cavanagh, B., M.A. Ox., D.Sc.  
Lond.

Sr. Lectr. (Gen. Phys.  
and Inorganic Chem.).

Anderson, V. G.

Lectr. (Principles of  
Applied Chem.).

Ampt, G. A., B.Sc. Lectr.

Sugden, Ruth, M.Sc. Sr. Demr.

Welch, K. N., M.Sc. Sr. Demr.

Scott, Margaret E., B.Sc. Sr. Demr.

*Classical Philology*

Scutt, C. A., M.A. Camb. Prof.

Kerry, W., M.A. Camb. and Melb.  
Sr. Lectr.

Cornwall, E. W., B.A. Ox.  
Evening Lectr.

*Commerce*

Copland, D. B., M.A., D.Sc. (N.Z.) [Prof.]

Wood, G. L., M.A. Adel.

Sr. Lectr. (Economics  
and Econ. Geog.).

Mauldon, F. R. E., B.A., M.Ec. Syd.

Sr. Lectr. (Economics).

Foenander, O. de R., LL.M.

Lectr. (Economics).

Nixon, E. V., F.C.P.A.

Lectr. (Accountancy).

Fitzgerald, A. A., B.Com., F.I.C.A.

Asst. Lectr. (Acctcy.).

Kelly, E. C. W., LL.M.

Lectr. (Law).

Ingram, E. J., B.Com.

Lectr. (Marketing).

*Dentistry*, v. Affiliated Colls.

*Dutch*

Lodewyckx, A. (v. German) Instr.

*Economics*, v. also Com.

Giblin, L. F., D.S.O., M.C., M.A.  
Camb. Ritchie Prof.

*Education*

Wrigley, L. J., M.A. Prof.

Sharman, M. S., M.A., M.Sc.

Sr. Lectr.

Browne, G. S., M.A. Ox., Dip.Ed.

Ox., Lond. Sr. Lectr.

Green, G. E., M.A., Dip.Ed.

Lectr.

Marshall, Isabella D., M.A. Ox.

and Dub., Dip.Ed. Camb.

Lectr.

Graham, T. O., M.Sc., Dip.Ed.

Lectr.

Greig, Jane Stocks, M.B., B.S.,

D.P.H. Lectr. (Hygiene).

Hoy, Alice, M.A., Dip.Ed. Lectr.

Wilson, H. W., B.Sc. Lectr.

Cunningham, K. S., M.A., Dip.Ed.

Lectr.

Kearland, Bertha M. H., M.Sc.

Lectr.

Jamieson, N. L., B.A., B.Com.,

Dip.Ed. Lectr.

Noall, A. Lectr.

*Engineering*, v. also Agric.

Payne, H., M.I.C.E., M.I.M.E.

Prof.

Kernot, W. N., M. Mech. E.,

M.I.C.E.

Assoc. Prof. (Design, etc.).

Sexton, C. W. N., M.C.E.,

Sr. Lectr. (Civ. E.).

Brown, E. B., D.Sc., A.C.G.I.

Assoc. Prof. (Elec. E.).

Darwin, E. R. H., B.Sc. Adel., L.S.,

Sr. Lectr. (Surveying).

Rennie, E. J. C., M.E.

Sr. Lectr. (Mech. Eng.).

Lang, E., B.E. (Adel.), A.M.I.E.

(Aust.) Lectr. (Civ. E.).

Mirfield, T. N., B.E.E.

Lectr. (Mech. Eng.).

Langlands, I., B.E.E.

Asst. Lectr. (Graphics).

Clark, G. C. L., M.C., M.M.E.,  
B.Sc. Tasm. (Mining).

Callaway, A. E., C.E. (Roads).

Harris, N. C., D.S.O., M.Sc.

(Works Practice).

Summons, W. E., M.D., B.S.,  
D.P.H. (Ambulance).

Galbraith, L.

Senr. Demr. (Civ. Eng.).

Holmes, A. E.

Sr. Demr. (Elec. E.).

Blackwood, R. R.

Senr. Demr. (Strength  
and Elasticity of  
Materials).

2 Demrs.

### *English Lang. and Lit.*

Cowling, G. H., M.A. Leeds Prof.

Derham, Enid, M.A. Sr. Lectr.

Price, W. T., M.A. Sr. Lectr.

Maxwell, Beatrice M., B.A.

Greig, Cicely M., B.A. Tutor.

Jennings, Vera C., M.A. Tutor.

### *French*

[Sr. Lectr.]

Chisholm, A. R., B.A. Syd.

Karagheusian, V. N. T. Lectr.

Callil, F. A. L., M.A. Tutor.

Coverlid, Dorothea R., M.A.,  
Dip.Ed.

Tutor (Science Students).

### *Geology and Mineralogy*

[Prof.]

Skeats, E. W., D.Sc. Lond. and

Melb., A.R.C.Sc. Lond., F.G.S.

Summers, H. St. J., D.Sc.

Assoc. Prof.

Singleton, F. A., M.Sc. (Agric. G.)

Sr. Lectr.

Hauser, H. B., B.Sc.

Demr. & Asst. Lectr.

Chapman, F., A.L.S. (Palæont.)

Lectr.

.....

Sr. Demr.

1 other Demr.

### *German*

[Assoc. Prof.]

Lodewyckx, A., M.A., Litt.D.

Coverlid, Dorothea R., M.A.

Tutor (Science Students).

### *Histology*

[Sr. Lectr.]

Hurley, L. E., M.D., M.S.

### *History*

Scott, E.

Prof.

Webb, Jessie S. W., M.A. Sr. Lectr.

Foenander, O. de R., LL.M.

Evening Lectr.

Sweetman, E., M.A., Dip.Ed.,

Litt.D.

Evening Lectr.

Harper, N. D., B.A., Dip.Ed.

Tutor.

Mulvany, J. F., M.A., LL.B.

Tutor.

### *Italian*

[Instr.]

Schiassi, O., LL.D. (Bologna)

### *Japanese*

Inagaki, M.

Instr

### *Law*

[Prof.]

Bailey, K. H., B.A., B.C.L. (Oxon.)

Duffy, C. Gavan (Contracts, etc.)

Lectr.

Gregory, R. H., LL.B. (Land, etc.)

Lectr.

Richardson, J. A., LL.B. Lond.

(Wrongs, etc.)

Lectr.

..... (Equity)

Lectr.

Phillips, P. D., M.A., LL.B. (Mod.

Polit. Institutions)

Lectr.

O'Bryan, N. J. G., LL.B. (Private

Internat. Law)

Lectr.

Sholl, R. R., M.A.

Lectr. (Law affecting

Journalism).

Coghill, E. H., LL.M. Tutor.

### *Mathematics, Pure and Mixed*

Cherry, T. M., B.A. Melb., Ph.D.

Camb.

Prof.

Gundersen, G., B.Sc. Sr. Lectr.

Barnard, R. J. A., M.A. Sr. Lectr.

Belz, M. H., M.Sc. Camb. Sr. Lectr.

Martin, Sylvia S., B.Sc. Tutor.

2 other Tutors.

### *Medicine, v. infra*

### *Metallurgy*

[Prof.]

Greenwood, J. Neill, D.Sc. Manc.

Thompson, P. F. Sr. Lectr.

O'Malley, G. B., B.Met.E. \*Lectr.

*Mining*, v. Engineering

*Music*

Heinze, B. T., Degré Sup., Schola  
Cantorum, Paris

Ormond Prof.

*Natural Philosophy*

Laby, T. H., M.A., Sc.D. Camb.,  
F.Inst.P. Ch. of Mfrs. Prof.

Hercus, E. O., D.Sc., F.I.P.

Sr. Lectr.

Rogers, J. S., B.A., Dip.Ed., M.Sc.

Sr. Lectr.

Martin, L. H., Ph.D. (Camb.)

Sr. Lectr.

Allen, Natalie C. B., B.Sc. N.Z.,  
M.Sc.

Sr. Demr.

Nelson, Edith A., M.A., M.Sc.

Sr. Demr.

Bingham, R. T. W., M.Sc.

Lectr. and Demr.

1 other Demr.

*Philos., Mental & Moral*

Gibson, W. R. B., M.A. Ox. and  
Melb., D.Sc. Ox.

Prof.

Merrylees, W. A., B.Litt. Ox.,  
M.A.

Sr. Lectr.

Cunningham, K. S., M.A., Dip.Ed.,  
Ph.D. (Columb.)

Evening Lectr.

Parker, Olga M., M.A.

Tutor.

Atkins, G. A., B.A.

Tutor.

*Physics*, v. Nat. Phil.

*Physiology*

Osborne, W. A., M.B., B.Ch. Belf.,  
D.Sc. Tüb.

Prof.

Young, W. J., M.Sc. Manc., D.Sc.  
Lond., D.Sc.

Assoc. Prof. (*Bio-Chemistry*)

Maxwell, L. A. I., M.Sc., B.Agr.Sc.,  
M.D., B.S. (also Lectr. in

*Anæsth.*)

Sr. Lectr.

Barrett, Sir J. W., K.B.E., C.B.,  
C.M.G., M.D., M.S., F.R.C.S.

Eng. (Ph. of Special Senses)

Sr. Lectr. (Hon.).

3 Demrs.

*Pub. Health*, v. Med.

*Russian*

Tscheremissinoff, Catherine B. A.  
Instr.

*Scandinavian Languages*

Lodewyckx, Mrs. A. Instr.

*Sociology*

Ball, W. M., B.A. Lectr.

*Spanish*

Clot-Fernandez, R. Instr.

*Veterinary Science*, v. *infra*

*Zoology*

Agar, W. E., M.A. Camb., D.Sc.  
Glas., F.R.S.

Prof.

Buchanan, Gwynneth V., D.Sc.

Sr. Lectr.

Tiegs, O. W., D.Sc. Adel.

Sr. Lectr.

Sweet, Georgina, D.Sc.

Hon. Lectr.

Medicine (for subjects of first  
2 yrs.—Anat., etc., v. *supra*)

*Anæsthetics*, v. Physiology

*Bacteriology*

Woodruff, H. A., M.R.C.S.,  
L.R.C.P.

Dir.

Rennie, Hilda M., M.B., B.S.

Lectr.

Gundersen, Sara E., B.Sc., M.B.,  
B.S.

Sr. Demr.

*Clinical M. and Clin. Surg.*

Staffs of the Melb., Alfred, and St.  
Vincent's Hospls.

*Ethics*, Med.

[Lectr.

Anderson, A. V. M., M.D., B.S.

*Forensic M.*

Mollison, C. H., M.B., B.S.,  
M.R.C.S. Eng.

Lectr.

*Mat. Med. and Pharmacy*

Stanton, B. L., M.B., B.S. Lectr.

*M. Theory and Practice*

Latham, L. S., M.D., B.S., M.A.  
Stewart Lectr.

Hiller, K., M.D., B.S. Lectr.

Sewell, S. V., M.D., B.S.	Lectr.	Hurley, T. E. V., C.M.G., M.D.,	
Silberberg, M. D., M.D., B.S.		M.S., F.R.C.S.	Lectr.
	Lectr.	Zwar, B. T., M.D., M.S.	Lectr.
<i>Obst. and Gynæc.</i>		Devine, H. B., M.B., M.S.	Lectr.
Allan, R. M., M.C., M.D., Ch.B.		Hailes, W. A., M.B., B.S.	Lectr.
Edin., F.R.C.S.E., F.C.S.A.,		Upjohn, W. G. D., M.D., M.S.	Lectr.
L.M. Dublin	Prof.		
3 Demrs.		<i>Therapeutics</i>	
<i>Pathology</i>		Cowen, S. O., M.D., B.S.	Lectr.
MacCallum, P., M.C., M.A., M.Sc.		<i>Venereal Diseases</i>	
N.Z., M.B., Ch.B., D.P.H.		Morris, A. E., M.B., B.S.	Lectr.
Edin.	Prof.		
Apperly, F. L., M.A., M.D., B.Ch.		<i>Veterinary Science</i>	
Ox., M.R.C.S., L.R.C.P., D.Sc.		<i>V. Parasitology</i>	
	Sr. Lectr.	Sweet, Georgina, D.Sc.	
King, E. S. J., M.D., B.S.			Sr. Lectr. (Hon.).
	Stewart Lectr.	<i>V. Pathology, etc.</i>	
Brown, C. J. O., M.D., B.S.		Albiston, H. E., B.V.Sc.	
	Sr. Demr.		Lectr. and Actg. Dir.
<i>Pub. Health</i>	[Lectr.]		
Kerr, F. R., M.D., B.S., D.P.H.		<i>University Extension</i>	
<i>Radiology</i>	[Lectr.]	Gunn, Prof. J. Alexander, M.A.,	
Cross, K. S., M.Sc., M.D., B.S.		Ph.D. Liv., B.Sc. Lond.	
<i>Surgery</i>	[Stewart Lectr.]		Director.
Kilvington, B., M.D., M.S.		15 Tutors.	

## AFFILIATED COLLEGES

I.—RESIDENTIAL—Controlled by representatives of the Churches but open to members of all religious denominations:

TRINITY COLLEGE (Church of England). Warden, J. C. V. Behan, M.A., LL.D. (Melb.), M.A., B.C.L. (Ox.). Sub-Warden, G. Taylor, M.A. (West Aust.), LL.M. Other Lectrs.: R. L. Aston, B.Sc., B.E. Syd., M.Sc. (Camb.); F. H. Campbell, D.Sc.; Miss E. I. Mollison, M.Sc.; Mrs. E. Wood, B.A.; J. R. Elliott, M.A. (Syd. and Camb.); Miss K. A. Lush, M.A.; Miss V. C. Jennings, M.A. (Melb.), B.A. (Ox.); K. O. Fairley, M.D., B.S., M.R.C.P. (Eng.); C. H. Osborn, M.B., B.S., F.R.C.S. (Eng.).

ORMOND COLLEGE (Presbyterian). Master, D. K. Picken, M.A. (Camb., Glas., and Melb.); Vice-Master, H. W. Allen, M.A. Other Lectrs.: Miss E. I. Mollison, M.Sc.; F. H. Campbell, D.Sc.; Mrs. E. Wood, B.A.; H. R. Dew, M.B., B.S., F.R.C.S. (Lond.); C. J. O. Brown, M.D., B.S., F.R.C.S. (Lond.); O. de R. Foenander, LL.M.; Miss K. A. Lush, M.A.; A. D. Ross, M.A.; R. O. Cherry, M.Sc.; G. O. Thomas, B.C.E.

QUEEN'S COLLEGE (Methodist). Master, Rev. F. W. Kernick, M.A. (Ox.); Vice-Master, J. F. Foster, B.A., LL.M.; Miss E. I. Mollison, M.Sc.; L. E. Hurley, M.D., M.S.; Mrs. E. Wood, B.A.; G. Atkins, B.A.; Miss E. Lothian, B.A.; T. O. Graham, M.Sc.; G. Finlay, L.D.S., B.D.Sc.; E. L. Cooper, M.B., B.S.

NEWMAN COLLEGE (R.C.). Rector, V. Rev. J. M. Murphy, S.J., M.A. Dean: W. Ryan, S.J., M.A., F.G.S., Dip.Ed. Resident Tutors: Rev. D. Kelly, S.J., M.A.; J. X. O'Driscoll, B.A., LL.M.; J. F. Mulvany, M.A., LL.B. Non-

Resident: R. F. O'Sullivan, M.B., B.S., F.R.C.S.; H. B. Devine, M.B., M.S.; Miss I. C. Cookson, B.Sc.; E. Prendergast, M.B., B.S.; T. King, M.D., B.S.; J. A. Clarebrough, D.D.S.; L. M. Tighe, M.B., B.S.; R. V. Hennessy, M.B., B.S., D.D.Sc., F.R.C.S., L.D.S.; S. Aldus.

II. AUSTRALIAN COLLEGE OF DENTISTRY. President: G. Finlay, L.D.S., B.D.Sc.; Principal: Prof. F. C. Wilkinson, M.D., Ch.B., B.D.S. Liv. Other Lecturers (excluding those on Univ. staff): Allen, C. E., L.D.S., D.D.Sc.; Parrett, F. S., L.D.S., B.D.Sc.; Trumble, H. C., M.D., B.S., F.R.C.S. (Eng.); Clark, J. K., L.D.S., D.D.Sc.; Tuckfield, W. J., M.A.C.D., F.A.C.D., D.Sc. (Chic.); Down, C. H., L.D.S., B.D.Sc.; Wilkinson, W. S., B.D.Sc., L.D.S., D.D.S.

## GENERAL INFORMATION

The Univ. was founded in 1853 by Act of the Victorian Legislature. In 1923 a new University Act was passed, increasing the annual endowment for general purposes to £45,000, providing an additional grant of £8500 for Univ. Extension, a Department of Commerce, and Research, and making constitutional changes. The Council is now composed of 31 members—10 elected by graduates; representatives of the teaching staff (5), of affiliated colleges (2), under-graduates (2); 8 appointed by the Govt. (3 being members of Parliament, the others representing business interests and technical schools); 2 *ex officio*; and 2 co-opted members. The legislative functions of the old Senate were transferred to a Standing Committee which, in addition, may submit any matter it pleases for the consideration of the Council. Recognition was accorded in the Act to the Professorial Board and the Faculties. The grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground of 16 acres.

LIBRARY, including the Med. and Chem. Departs., 66,000 vols. MUSEUMS AND LABS., Anat., Biol., Engin., Geol., Path. (18,000 specimens), Vet. LABORATORIES, Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall. and Mining (with 3 head stamp battery), Physics, Physiol. VET. RESEARCH INSTITUTE. WERRIBEE RESEARCH FARM. HALL RESEARCH INSTITUTE in connexion with Melbourne Hospl.

FACULTIES. Arts, Sc., Law, Med., Dent., Vet. Sc., Engin. (including Archit., Metall., Mining), Agric., Educn., Commerce.

DEGREE COURSES: 3 yrs.—B.A. (ordy. and with Honrs.), B.Sc., B.Com.; 4 yrs.—B.Sc. (Honrs.), LL.B., Mus.Bac., B.D.Sc., Lic.V.Sc., B.V.Sc., B.C.E., B.M.E., B.Met.E., B.E.E., B.Mech.E., B.Agric.Sc.; 5½ yrs.—M.B., B.S.

The first 2 years for the LL.B. may be those of the Arts course. The 2nd year of the B.Agr.Sc. course is passed at Werribee Research Farm.

HIGHER DEGREES. Open to Bachelors of 1 yr.'s standing—LL.M., M.V.Sc. 2 yrs.—M.A., M.Sc., M.D., M.S., D.D.Sc., M.C.E., etc.; 3 yrs.—Mus.D., D.V.Sc.; 4 yrs.—D.Sc., LL.D.; 5 yrs.—D.Eng.; 7 yrs.—D.Litt. Courses of MEDICAL POST-GRADUATION STUDY arranged by special Committee on which Univ. is represented.

DIPLOMAS (which except Dip.Ed. and Archit. can be taken without Matricn.): Educn., 3 yrs.' course, which may include 2 yrs. of the course for any degree in the Univ.; Analyt. Chem., 9 mos. following Final Honrs. in Chem.; D.P.H., open to Med. grads. of Melb. of 1 yr.'s standing and persons who have for 1 yr. been qualified for registration as Med. practr. in U.K., 12 mos.; D.T.M., open to Aus. Med. practrs. of 1 yr.'s standing, 3 mos.; Archit., 4 yrs.; Agric., 4 yrs.; Commerce, 3 yrs.

**SCHOLARSHIPS, ETC.** Aggregate annual value about £14,000. Among the more important are Research Fellowships of £500 each, Research Scholarships up to £200, and combined Research and Teaching foundations.

The Act of 1923 provided for the admission of the following free students: 15 certificated teachers of the Education Dept. *per annum*; 5 other Govt. officers *per annum*; 50 other persons *per annum*. All other certificated teachers and students of Training Colleges are admitted at half fees.

A *Students' Loan Fund* has assets exceeding £35,000.

**RESIDENCE.** The Affiliated Colls. (v. *supra*) accommodate over 400 resident students.

**ADULT EDUCATION.** Tutorial classes are conducted in the city and suburbs and 6 country centres.

**PUBLIC EXAMINATIONS.** School Intermediate and School Leaving are held by the Univ. annually in Dec.; the Intermediate qualifies for entry into the State Public Service, the School Leaving certif. qualifies for matricn. The Univ. also arranges for the Inspection of Secondary Schools.

**PUBLICATIONS.** *Calendar*, 3s. net, includes list of publicns. by members of staff; *Examn. Papers*, 1s.; *Students' Handbook*, 1s.; *Handbook of Pub. Examns.*, 2s. 6d.; *Conservatorium Prospectus*; *Manual of Pub. Examns. in Music*. Students' journals: *Melb. Univ. Magazine*; *Farrago* (weekly), *Speculum* (Medical), *The Margin* (Commerce).

The UNIVERSITY PRESS, founded in 1921, has published several important books by members of the Univ., embodying results of research in subjects peculiar to Australia. Messrs. Macmillan & Co. act as distributing agents. It conducts an exchange business in text-books, and caters for students' requirements in stationery and apparatus.

## THE YEAR 1928, 1929

**BENEFACTIONS.** Edward Wilson Trust, £20,000, addition to endowment for Chair of Obstetrics; E. F. Millar, £4000, general purposes; R. J. Alcock, £2085, scholarships; Mrs. Harry Emmerton, £2000, Law scholarships; Chamber of Manufactures, £2000, James Cuming Memorial Scholarships; M. A. Bartlett, £1450, scholarships; MacPherson Robertson, £1000, Bacteriology and Engin. equipment; Alfred Felton Bequest, £500, and Miss L. E. Armstrong, £200, Cancer Research; Subscribers, £350, Library; "A. N. T.", £250, research.

**CHANGES IN STAFF.** Prof. R. J. A. Berry, M.D., has resigned the Chair of Anatomy, and Prof. F. Wood Jones, F.R.S., has been appointed in his stead; Dr. R. Marshall Allan, M.D., has been appointed to the new Chair of Obstetrics; and Professor L. F. Giblin, M.A., has been appointed to the new Ritchie Chair of Econ.; Prof. J. H. Michell, F.R.S., has retired from the Chair of Maths., and Prof. T. Cherry, B.A., Ph.D., has been appointed in his stead.

**NEW BUILDING.** A new building for the Botany Dept., at a cost of about £20,000, has been completed and occupied.

**STUDENTS (1928).** Total, 2991; not attending lectures but receiving tuition by correspondence, 202.

**UNIV. EXTENSION.** Tutorial class students, 1594; extension lectures, 68; wireless "lecturettes," 52.

**DEGREES.** B.A., 94; M.A., 24; B.Sc., 37; M.Sc., 9; D.Sc., 2; LL.B., 35; LL.M., 2; B.C.E., 13; M.C.E., 6; B.E.E., 8; M.E.E., 2; B.Met.E., 2; B.Mech.E., 6; Mus.Bac., 1; B.D.Sc., 21; B.Vet.Sc., 4; B.Ag.Sc., 4; M.Ag.Sc., 3; M.B., B.S., 83; M.D., 7; M.S., 3; B.Com., 24.

# UNIVERSITY OF QUEENSLAND, BRISBANE

CHANCELLOR—The Hon. Chief Justice J. W. BLAIR.

VICE-CHANCELLOR—W. N. ROBERTSON, C.B.E., M.B., Ch.M., F.R.A.S.

REGISTRAR AND LIBRARIAN—J. F. McCaffrey.

## PROFESSORS, LECTURERS, ETC.

<i>Agriculture</i>	[Prof.	Munro, A. R.
Murray, J. K., B.A., B.Sc. (Agr.)	Sr. Demr. & Asst. Lectr.	
<i>Biology</i>		Stoney, A. J. M'C., B.E.,
Goddard, E. J., B.A., D.Sc. Syd.	Senr. Demr. & Asst. Lectr.	
	Prof.	10 Special Lectrs.
Cayzer, A., B.Sc. Syd (Botany)		
	Lectr.	<i>English Language and Lit.</i>
Herbert, D. A., D.Sc. (Zoology)		Stable, J. J., M.A. Camb.
	Lectr.	McCaughy Prof.
Perkins, F. A., B.Sc. (Agr.) (Econ.		
Ent.)	Lectr.	<i>Geology and Mineralogy</i>
Hardy, G. H.		Richards, H. C., D.Sc. Melb.
	Fellow in Economic B.	
<i>Chemistry</i>		
Steele, B. D., D.Sc. Melb., F.I.C.,		Prof.
F.R.S.	Prof.	Bryan, W. H., D.Sc. Lectr.
Bagster, L. S., D.Sc. Melb. (Ap-		Whitehouse, F. W., M.Sc., Ph.D.
plied C.)	Lectr.	
Hines, H. J. G., B.Sc. Lond.		<i>History and Economic Science</i>
(Agric.)	Lectr.	Alcock, H., M.A. Ox.
Jones, T. G. H., D.Sc. Syd., A.I.C.		McCaughy Prof.
	Lectr.	Melbourne, A. C. V., M.A. Adel.
O'Connor, E. A., M.Sc. Melb.		Lectr. in Econ. and
	Sr. Demr. & Asst. Lectr.	Colonial H.
		Gifford, J. L. K., M.A. Glas.
		Lectr.
<i>Classics</i>		
Michie, J. L., M.A. Camb. Prof.		<i>Law</i>
Castlehow, S., M.A. Ox. Lectr.		Cumbræ-Stewart, F. W. S., D.C.L.
		Ox., K.C., Barr.-at-Law
		Garrick Prof.
<i>Engineering</i>		
Hawken, R. W. H., B.A., M.E.		<i>Mathematics</i>
Syd., M.I.C.E. Prof.		Priestley, H. J., M.A. Camb.
Boyd, A., D.Sc. Lond., B.E.,		Prof.
M.I.E.E.		Priest, H. J., B.A., B.Sc. Adel.
	Lectr. (Mech. & El. E.).	Lectr.
Ross, C. N., M.Sc., B.M.E. Melb.		Simonds, E. F., M.A., Ph.D.
	Lectr. (Civ. E.).	Lectr.

<i>Medical Psychology</i>		Lusby, S. G., M.A. Syd. Asst. Prof.
Lowson, J. P., M.A., M.D. Edin.		Rimmer, T., M.Sc. Manc.
	Research Prof.	(Phys. and Meteorol.)
<i>Modern Languages</i>		Lectr.
Robinson, F. W., M.A. Syd., Ph.D.		<i>Surveying</i>
	Jena	James, F. W., M.Sc.
Schindler, C., M.A.	Lectr.	Part-time Lectr.
Tommerup, H. G., M.A.		
	Part-time Lectr.	External Studies
<i>Philosophy</i>		Jones, T. E., B.A. Syd. Director.
Scott-Fletcher, M., M.A. Syd.,		Darvall, Annie E., B.A. Asst.
	B.Litt. Ox.	Smart, Jessie I., B.A. Asst.
Kyle, W. M., M.A.	Lectr.	
<i>Physics</i>		Workers' Tutorial Classes
Parnell, T., M.A. Camb.	Prof.	Molesworth, B. H., M.A. Director.

## RECOGNIZED RESIDENTIAL COLLEGES

- EMMANUEL (Presb.). Principal—Mervyn Henderson, M.A. Camb.  
 ST. JOHN'S (C. of E.). Warden—Rev. Canon B. P. Robin, B.A.  
 KING'S (Methodist). Master—H. H. Trigge, M.A., B.D.  
 ST. LEO'S (R.C.). Rector—Rev. J. English, D.D.  
 WOMEN'S (undenominational). Principal—Freda Bage, M.Sc. Melb., F.L.S.

## GENERAL INFORMATION

The Univ. was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 are appointed by the Government and 10 are elected by the Council (consisting of all members and past members of the Senate, graduates of the Univ. of 3 yrs.' standing, persons appointed by the Govt. as representatives of Commercial, Industrial, Scientific, etc., Assocns., benefactors, etc.). The annual grant from Govt. was £10,000 until 1917, when it was raised to £15,000. In 1922 it was raised to £20,000. In 1923 a further £2000 was voted by the Government, which has since contributed £22,000 per annum. Under the will of the late Sir Samuel McCaughey the Univ. receives an annual income of about £11,000.

The grounds, facing the Brisbane River and adjoining the Botanical Gardens, include, in addition to the main building and recreation grounds, 6 departmental buildings and the Central Technical College.

**LIBRARY**, 30,000 vols. **LABORATORIES**: Agric., Biol., Chem., Applied Chem., Engin., Geol., Physics.

**FACULTIES**. Arts, Science, Engineering, Agriculture, Commercial Studies, Law, Medicine. Only the first five have been organized for imparting instruction.

**DEGREE COURSES**. 3 yrs.—B.A., B.Com., B.Sc.; 4 yrs.—B.Sc. Honours, B.Sc. Agr., B.Sc. (Applied) in Industrial Chem., and B.E. in Civ., Mech. and Elec., Chem., or Mining Engin.

A *Diploma Course* in Mech. and Elec. Engin. (may be followed in any approved Coll. or Instn.), 4 yrs.; a Diploma course of at least 2 yrs. for persons

who have had 3 yrs.' practical experience of Journalism ; a Diploma of Commerce, and a Commercial Certificate are offered.

**HIGHER DEGREES.** M.A. and M.Sc., open to B.A. and B.Sc. of 2 yrs.' standing, through examn. (M.A., examn. and thesis). M.E., open to B.E. of 3 yrs.' standing, 25 yrs. of age, engaged in professional work. D.Sc. open to M.Sc. of 5 yrs.' standing by examn. and thesis.

**EVENING LECTURES AND EXTERNAL STUDENTS.** Evening students may extend their course over 5 yrs. in Arts and Sc. No evening work in Engin. subjects is done, but by 5 yrs. of evening work elsewhere exemption from the first 2 yrs. of the B.E. course may be obtained.

Persons who having matriculated are unable to attend lectures at or in connexion with the Univ. may pursue certain courses under the guidance of the Director of Correspondence studies. They may thereby, provided they pass the prescribed examns. (which may be held at local centres), qualify for a B.A. degree.

**ADULT MATRICULATION.** Candidates who have attained the age of 25 yrs. may be admitted to matric. in the Faculties of Arts, Science, and Engineering upon passing a special examn.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** 2 gold medals offered by Govt. for distinction at graduation ; £100 for 2 yrs. for Chem. Research ; £200 for 1 yr. for Engin. work ; £250 for study outside Australasia ; £300 for 3 yrs. (W. and E. Hall Foundation), of which 2 to be spent abroad in Engin. Research ; £500 for 2 yrs. in Econ. Biol.

**RESIDENCE.** Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll. or boarding-house licensed by the Senate. Fees in the Colleges, including residence, commons, and tuition, 20 gs. a term (Women's £20, St. Leo's £20).

**PUBLIC EXAMINATIONS** are held by the Univ. annually in Nov. and Dec. : Junior, Junior Commercial, and Senior. For matriculation the corresponding public examns. of the Univs. of Adelaide, Melbourne, and Sydney are treated as equivalent to these.

**PUBLICATIONS.** *Calendar*, 2s. 6d. ; *Manual of Pub. Examns.*, 2s.

## THE YEAR 1928, 1929

**BENEFACTIONS.** \$5000 (£1026), from Carnegie Corporation, U.S.A., for advancement of Adult Education ; £500, from Australian Sugar Producers' Assn. towards Faculty of Agric. ; £5000, Trustees late James Forsyth, towards Faculty of Agric. ; £3050, Trustees Sir William MacGregor Recognition Fund towards Faculty of Med.

**NEW BUILDINGS.** A new Engineering laboratory was erected at the beginning of the year.

**NEW DEPARTMENTS AND POSTS.** DEPARTMENTS, nil. POSTS : Second full-time Senr. Demonstr. and Assist. Lectr. in Engin., in place of part-time student demonstrators. ; Lectr. in Agric. Chem. ; and Lectr. in Econ. Entomol.

**OTHER DEVELOPMENTS.** Lectures in Meteorology were provided in the Dept. of Physics from the beginning of the year. Under arrangements made through Joint Boards, composed of members of the Univ. and of representatives of the Dental and Legal professions, candidates can fulfil, in association with the Univ., part of the requirements for entry to these professions.

**CHANGES IN REGULATIONS.** The rules for the Degree of B.A. have been amended, and credits are obtained by units, instead of completed years.

**EXTRA-MURAL WORK.** Two or three courses of five lectures each are delivered in Brisbane annually by the members of the teaching staff in turn, and lecturers visit country towns every year under arrangements made by a Joint Committee of Tutorial Classes and Public Lectures composed of members of the Univ. and of the Workers' Ednl. Assn.

**STUDENTS.** Full-time, 228, incl. 3 graduates; Part-time, 438, incl. 20 graduates.

**DEGREES.** B.A., 46; M.A., 3; B.Sc., 12; M.Sc., 2; B.Sc. (Applied), 2; B.E., 11; M.E., 2; B.Com., 1.

# UNIVERSITY OF SYDNEY

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—HON. SIR WILLIAM PORTUS CULLEN, K.C.M.G., M.A., LL.D.

DEPUTY-CHANCELLOR—SIR MUNGO MACCALLUM, K.C.M.G., M.A., LL.D., D.Litt.

VICE-CHANCELLOR—R. S. WALLACE, M.A. (Aber. and Ox.), LL.D. (Aber.).

REGISTRAR—W. A. SELLE, M.A.

LIBRARIAN—H. M. GREEN, B.A., LL.B.

TUTOR TO WOMEN STUDENTS—ISABEL M. FIDLER, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i> , v. Com.	<i>Architecture</i>	[Prof.
<i>Agriculture</i>	Wilkinson, L., F.R.I.B.A., F.I.A.	
Watt, R. D., M.A., B.Sc.	Hook, A. S., A.R.C.A. (Pract. and Constn.)	Assoc. Prof.
Lectrs. :	Carter, N. (Freehand Dr.)	Instr.
Waterhouse, W. L., B.Sc.Agr. (Plant Path. and Agr. Bot.).	Moore, J. D. (Design)	Lectr.
Wright, G. (A. Chem.).	Richardson, R.	Lectr.
Anderson, R. H., B.Sc.Agr. (Forestry).	Harris, R. K., A.R.I.B.A. (Town Planning)	Lectr.
Wolstenholme, E. K., F.L.S. (Fruit Culture).	i Studio Asst.	
<i>Anatomy</i>	<i>Astronomy</i>	
Burkitt, A. N. St. G. H., M.B., B.Sc.	.....	Prof.
Challis Prof.	Sawkins, D. T., M.A. (v. Econ.)	Lectr. (Geodesy & A.).
Stump, C. W., M.D., D.Sc. (Ed.) (Histology and Embryology)	<i>Botany</i> , v. also Agric.	
Bosch Prof.	Osborn, T. G. B., D.Sc. Man.	
Lectrs. :	McLuckie, J., M.A. Glas., D.Sc.	Asst. Prof.
Wilkinson, H. J., M.A., M.B., Ch.M.	Brough, P., M.A., B.Sc., B.Sc.Agr. Glas.	Lectr. & Demr.
Senior Lectr.	i Demr.	
Coppleson, V. M., M.B., Ch.M.	<i>Chemistry</i>	
McDonald, K. D., B.A., M.B., B.Sc.	Fawsitt, C. E., D.Sc. Edin., Ph.D. Leip.	Prof.
Matthews, G. P.	Lectrs. & Demrs. :	
Garde, Mary L., B.Sc. Asst. Lectr.	Burrows, G. J., B.Sc.	
Demrs. :	Brereton, E. Le G., B.Sc.	
Nowland, R. E., M.B., Ch.M.	Iredale, T., B.Sc. Syd., D.Sc. Lond.	
Miller, I. D., M.B., Ch.M.	Mellor, D. P., M.Sc.	Asst. Lectr.
<i>Anthropology</i>	2 other Demrs.	
[Prof.		
Brown, A. Radcliffe, M.A. Camb.		
Wedgwood, C. H., B.A. Camb.		

*Chem., Organic, Pure and Applied*

- Earl, J. C., D.Sc. Adel., Ph.D. St. And. Prof.  
 Lions, F., B.Sc., Ph.D. Manc. Lectr.  
 Trikojus, V. M., B.Sc., Ph.D. Lectr.  
 1 Demr.

*Classics*

- Woodhouse, W. J., M.A. Ox. (Greek) Prof.  
 Todd, F. A., B.A., Ph.D. Jena (Latin) Prof.  
 Powe, A. B., M.A. Q'ld (Latin) Lectr.  
 Robinson, A. H., M.A. (Latin) Lectr.  
 Shipp, G. P., B.A. (Latin) Lectr.

*Commerce*

- Kerr, I. W., B.Ec. (Acctcy.) [Lectr.  
 Cleary, W. J., B.Ec. (Business) Lectr.  
 Bradley, W. J., B.A., LL.B. (Com. and Indust. Law) Lectr.

*Dentistry, v. infra**Economics*

- Mills, R. C., LL.M. Melb., D.Sc. Econ. Lond. Dean & Prof.  
 Benham, F. C., B.Sc., Ph.D. Lond. (Econ.) Lectr.  
 Walker, E. R., B.A. Lectr.  
 Portus, G. V., B.Litt. Ox., M.A. (E. Hist.) Lectr.  
 Bland, F. A., M.A., LL.B. (Pub. Admn.) Lectr.  
 Watts, P. R., B.A., LL.B. (Mod. Pol. Institutions) Lectr.  
 Sawkins, D. T., B.A. Camb., M.A. (Statistics) Lectr.

*Education*

- Mackie, A., M.A. Prof.  
 Cole, P. R., M.A., Ph.D. Col. Lectr.  
 Roberts, T. T., M.A. Lectr.  
 Phillips, G. E., M.A., D.Sc. Lectr.

*Engineering, v. infra**English Language*

- Holme, E. R., O.B.E., M.A. McCaughey Prof.

*English Literature*

- MacCallum, Sir Mungo W., M.A., LL.D. Glas., D.Litt. Ox. Hon. Prof.  
 Brereton, J. Le Gay, B.A. Prof.  
 Waldock, A. J. A., M.A. Lectr.

*Forestry, v. Agric.**French*

- Nicholson, G. G., C.B.E., B.C.L. Ox., M.A. Prof.  
 Marks, Gladys, B.A. Lectr.  
 Barbier, C. H. Lectr.

*Geodesy, v. Astron.**Geography*

- Holmes, J., B.Sc. Glas. McCaughey Assoc. Prof.  
 2 Demrs.

*Geology and Phys. Geog.*

- Cotton, L. A., M.A., D.Sc. Prof. & Hovell Lectr.  
 Browne, W. R., D.Sc. Asst. Prof.  
 Waterhouse, L. L., B.E. Lectr. & Demr.  
 Osborne, G. D., D.Sc. Lectr. & Demr.

- Dun, W. S. (Palæont.) Lectr.  
 Powell, Dorothy E., B.Sc. Demr.  
 Quodling, Florrie M., B.Sc. Demr.

*German and Comparative Lit.*

- Waterhouse, E. G., M.A. McCaughey Assoc. Prof.  
*History, v. also Econ.*  
 Roberts, S. H., M.A. Melb., D.Sc. Econ. Lond. Challis Prof.  
 Bruce, J. F., B.A. Ox., M.A. Assoc. Prof.

*Japanese, v. Oriental**Law, v. infra**Mathematics, Pure and Applied*

- Carlaw, H. S., M.A., Sc.D. Camb., D.Sc. Glas., LL.D. Glas. Prof.  
 Wellish, E. M., B.A. Camb., M.A. (Appl. M.) Assoc. Prof.  
 Lyons, R. J., B.A. Camb. Lectr.

Thorne, H. H., M.A. Camb., B.Sc.  
Lectr.

*Medicine, v. infra*

*Mining*

Power, F. D., F.G.S. Russell Lectr.

*Oriental Studies*

Sadler, A. L., M.A. Ox. Prof.

*Philosophy*

[Challis Prof.]

Anderson, J., M.A. Glas.

Porter, N. C., B.A. Melb.

Asst. Lectr.

*Physics*

Vonwiller, O. U., B.Sc. Prof.

Bailey, V. A., M.A., D.Ph. Ox.

Assoc. Prof.

Briggs, G. H., B.Sc., Ph.D. Camb.

Asst. Prof.

Booth, E. H., B.Sc.

Lectr. & Demr.

3 other Demrs.

*Physiology*

[Prof.]

Davies, H. W., M.B., B.S. Adelaide

Priestley, H., M.D., Ch.M., B.Sc.

McCaughy Assoc. Prof.

Lectrs. & Demrs. :

Cotton, F. S., B.Sc.

McQuiggin, H. G., M.B., Ch.M.,  
B.Sc.

Wardlaw, H. S. H., D.Sc.

Hindmarsh, Ellen M., B.Sc.

Demrs. :

Cooksey, T., B.Sc., Ph.D.

Archer, H. R., B.Sc. Melb.

*Preventive Medicine*

.....

Lectr.

*Psychology*

Lovell, H. T., M.A., Ph.D. Jena

McCaughy Prof.

Martin, A. H., M.A., Ph.D. Col.

Lectr.

1 Demr.

*Veterinary Science*

Stewart, J. D., M.R.C.V.S.,  
B.V.Sc. Prof.

Carne, H. R., B.V.Sc. (Path.)

Lectr.

Gunn, R. M. C., B.Sc. (Agr.),  
Birm. & Syd., M.R.C.V.Sc.  
(Surg. & Anat.) Lectr.

Henry, M., B.V.Sc. (Vet. Juris.)  
Lectr.

Clunies-Ross, I., D.V.Sc. (Vet.  
Parasitology).

Ferguson, J. R., B.V.Sc. (Vet.  
Med. and Pharm.) Lectr.

Drabble, J., B.V.Sc. (Meat In-  
spection) Lectr.

Whitehouse, F., B.V.Sc. (Zoo-  
techny) Lectr.

*Zoology*

Dakin, W. J., D.Sc. Liv., F.L.S.,  
F.Z.S. Challis Prof.

Briggs, E. A., D.Sc.

Lectr. & Demr.

Murray, P. D. F., D.Sc.

Lectr. & Demr.

Nicholson, A. J., D.Sc. Manc.  
(Entom.) McCaughy Lectr.

1 Demr.

*Engineering*

*Civil Engineering*

Miller, W. A., B.Sc., M.E.,  
A.M.I.C.E. Challis Prof.

Vogan, H. J., B.E.

Lectr. & Demr.

Leech, T. D. J., B.Sc., B.E.

Lectr. & Demr.

Bickford, C. R.

Lectr.

Larkins, H. M., B.E.

Lectr.

Nicol, T. B., B.Sc., B.E.

Lectr.

Vicars, J., M.E.

Lectr.

Hodgson, C. A., M.A. Camb.

Lectr.

2 Demrs.

*Electrical E.*

Madsen, J. P. V., B.E., D.Sc.  
Adel. Russell Prof.

Lectrs. & Demrs. :

Sharp, L. H., B.Sc., B.E.

Campbell, E. F., B.E.

*Mechanical E.*

Barracrough, Sir S. H. E., K.B.E.,  
M.M.E. Corn., B.E., M.I.M.E.,  
M.I.C.E. Russell Prof.

M.I.C.E.

Russell Prof.

## AUSTRALIA

Sutherland, G. F., A.R.C.S.  
Asst. Prof.

Lectrs. & Demrs. :

Swain, H. J., B.A., B.Sc., B.E.

Gibson, W. H. H., B.Sc., B.E.

Hart, K. R. M., B.Sc., B.E.

3 Hon. Lectrs.

*Technology and Metallurgy*

Eastaugh, F. A., A.R.S.M., F.I.C.

Assoc. Prof.

Law, v. also Com.

Peden, The Hon. J. B., M.L.C.,

B.A., LL.B., K.C.

Challis Prof.

*International Law & Jurispr.*

Charteris, A. H., M.A., LL.B.

Edin.

Challis Prof.

*Contracts, Merc. Law, Torts*

Sugerman, B., LL.B.

Challis Lectr.

*Equity and Company Law*

Roper, E. D., B.A., LL.B.

Challis Lectr.

*Bankruptcy and Probate*

McDonald, E. F., LL.B.

Challis Lectr.

*Divorce*

[Challis Lectr.

Mackenzie, W. K. S., D.S.O., B.A.

*Procedure, Pleading, & Evidence*

Rowland, N. de H., B.A., LL.B.

Challis Lectr.

*Interpretation*

Chambers, R., B.A., LL.B.

Challis Lectr.

*Legal Ethics*

.....

Lectr.

*Roman Law*

McTiernan, The Hon. E. A., B.A.,

LL.B.

Challis Lectr.

*Criminal Law*

[Lectr.

Treath, V. H., B.A., B.C.L. Ox.

*Conveyancing*

Watts, P. R., B.A., LL.B. Reader.

Medicine (for Preventive M. and  
Anat., Chem., etc., v. *supra*)

*Anæsthetics*

Lidwill, M. C., M.D.

Tutor.

Stokes, E. H., M.B., Ch.M.

Tutor.

Maude, J. D., M.B., Ch.M.

Tutor.

*Cancer Research*

Chapman, H. G., M.D., B.S.

Director of Research.

Sandes, F. P., M.D., Ch.M., B.Sc.

Director of Treatment.

Stephens, J. C., M.B., Ch.M.

Radiotherapist.

Keatinge, Leila K., M.B.

Med. Biologist.

Moppett, W., M.D., Ch.M.

Med. Biologist.

Bishop, W. B. S., M.Sc.

Bio-Chemist.

Mankin, Winifred R., B.Sc.

Bio-Chemist.

Newman, R. K., B.Sc.

Bio-Chemist.

Horning, E. S., M.A. Ox., D.Sc.

Melb.

Cytologist.

Bannon, J., B.Sc.

Physicist.

Love, W. H., B.Sc.

Physicist.

*Diseases of Ear, Nose, Throat*

Godsall, R. S., M.B., Ch.M. Lectr.

*Diseases of the Skin*

[Lectr.

Molesworth, E. H., M.D., Ch.M.

*Ethics of Med. Pract.*

[Lectr.

Todd, R. H., B.A., M.D., Ch.B.

*Gynæcology*

Davies, R. L., O.B.E., M.B., Ch.M.,

F.R.C.S. Eng.

Lectr.

*Infectious Diseases* [Hon. Tutor.

Millard, R. J., C.M.G., M.B., Ch.M.

*Materia Med.*

Macpherson, J., M.A., M.B.,

Ch.M., B.Sc.

Lectr.

Finnemore, H., B.Sc., F.I.C.,

F.C.S.

Lectr. in Pharmacy.

3 Demrs. in Pharmacy.

*Medical Jurispr.*

[Lectr.

Todd, R. H., B.A., M.D., Ch.B.

*Medicine*

Mills, A. E., M.B., Ch.M. Prof.

*Medicine, Clinical*Blackburn, C. B., O.B.E., M.D.,  
Ch.M. Lectr.

Cosh, J. I. C., M.B., Ch.M. Lectr.

Fairfax, E. W., M.B., Ch.M. Lectr.

Ritchie, H. J., M.B., Ch.M. Lectr.

Stephen, E. H. M., M.B., Ch.M.  
Lectr.Diethelm, O. A., M.B., Ch.M.  
Lectr.

## Med. Tutors:

McDonald, C. G., M.B., Ch.M.

Hughes, L. H., M.D., Ch.M.

Willcocks, G. C., M.B.

Evans, Wilfred, M.B.

Taylor, R. J., M.B., Ch.M.

*Obstetrics*

[Prof.]

Windeyer, J. C., M.D., Ch.M.

D'Arcy, Constance E., M.B., Ch.M.  
Lectr.

Ludowici, E., M.B., Ch.M. Lectr.

Craig, F. B., M.B., Ch.M. Tutor.

Gibson, A. J., M.B., Ch.M. Tutor.

Hipsley, P. L., M.D., Ch.M. Demr.

Ridler, H. A., M.B., Ch.M. Demr.

Farquharson, Alice M. Demr.

*Ophthalmology*

Waddy, R. G., M.B., Ch.M. Lectr.

*Pathology*Welsh, D. A., M.A., B.Sc., M.D.,  
F.R.C.P. Edin. Prof.Inglis, W. K., M.D., Ch.M.  
Lectr. & Chief Demr.

Walker, A. S., M.D., Ch.M. Demr.

Welsh, A. M., M.B., Ch.M. Demr.

*Pharmacy, v. Materia Med.**Psychiatry*Dawson, Wm. S., D.M. Ox.,  
D.P.M. Prof.*Surgery*Edye, B. T., M.B., Ch.M., F.R.C.S.  
(Eng.)

Acting McCaughey Prof.

*Surgery, Clinical* [Lectr.]

Dansey, St. J. W., M.B., Ch.M.

Poate, H. R. G., M.B., Ch.M. Lectr.

Storey, J. C., M.B., Ch.M. Lectr.

McKelvey, J. L., M.B., Ch.M.

Lectr.

Stacy, H. S., M.D., Ch.M. Lectr.

Wade, R. B., M.D., Ch.M. Lectr.

Coppleson, V. M., M.B., Ch.M.

Lectr.

Farranridge, T., M.B., Ch.M.

Tutor.

Ramsay Sharp, W. A., M.B.,  
Ch.M., F.R.C.S. (Edin.)

Tutor.

Maxwell, W. T. D., M.B., Ch.M.

Tutor.

## Dental Science

Reading, R. F., M.R.C.S., L.R.C.P.,

L.D.S. Eng. McCaughey Prof.

Burne, A. D., D.D.S. Lectr.

Marshall, F., D.D.S. (Mech. D.)

Lectr.

Gates, E. C., D.D.S. (Clin. D.)

Lectr.

Ash, P. A., D.D.S. (Surg. D.) Lectr.

Smith, Donald (Surg. D.) Lectr.

Charlton, P. C., D.D.S., (Dental

Mat. Med.) Lectr.

2 Demrs.

## University Extension

Mackay, I. G., C.M.G., D.S.O.,

B.A. Secy. to the Board.

Portus, G. V. (v. *supra*, Econ.)

Dir. of Tutorial Classes.

Bland, F. A. (v. *supra*, Econ.)

Asst. Director.

1 full-time tutor and 51 tutorial  
class lectrs.

## COLLEGES WITHIN THE UNIVERSITY

ST. PAUL'S COLLEGE (Anglican). Warden—Rev. A. H. Garnsey, M.A.,  
Lectr. in *Div. and Classics*. Sub-Warden—V. H. Treatt, B.A. Syd., B.A.,  
B.C.L. Ox., Lectr. in *Law*. W. C. B. Harvey, M.B., M.S., Lectr. in *Med.*  
*Philosophy*—S. S. Ick-Hewins. *Science*—M. R. Morey, B.Sc. *Surgery*—

T. Farranridge, M.B., Ch.M. *Pathology*—J. W. S. Laidley, M.B., Ch.M. *Vet. Sci.*—T. R. Jones, B.V.Sc.

ST. JOHN'S COLLEGE (R.C.). Rector—Very Rev. M. J. O'Reilly, D.D., Lectr. in *Christian Apologetics and English*. Vice-Rector—Rev. J. P. Slattery, C.M. Other Lectrs.: *Med.*—J. Coen, M.B., Ch.M. *Surg.*—M. R. Flynn, M.B., Ch.M. *Scholastic Philos.*—Rev. W. Keane, M.A. *Law*—T. P. Flattery, M.A., LL.B. *Maths. and Physics*—J. D. McGee, B.Sc. *Gynaecology*—D. Foy, M.B., Ch.M.

ST. ANDREW'S COLLEGE (Presb.). Principal—E. E. Anderson, M.A., D.D. Aberd. Vice-Principal—A. C. Wallace, B.A. Secretary—S. J. Carruthers. Hunter-Baillie Profs.: *Oriental and Polynesian Langs.*—E. E. Anderson, M.A., D.D. *English*—K. Edward, M.A., D.Phil. Lectrs.: *Med.*—T. M. Greenaway, M.B., Ch.M. *Science*—G. H. Clarke, B.Sc. (*Biol.*); J. G. Stephens, M.B., Ch.M.; K. H. Lauder, M.Sc. (*Phys. and Chem.*). *Religion*—The Principal. *Engl., Hist., and Philos.*—A. C. Wallace, B.A. *Engin. and Maths.*—L. S. C. Tippet. *Histology*—L. W. Wing. *Surgery*—T. Farranridge, M.B., Ch.M. *Physiology*—C. M. Cotton, B.Sc.

WESLEY COLLEGE (Methodist). Master—Rev. L. E. Bennett, M.A. Melb., B.D. Lond. Tutors: *Philos. and English*—The Master. *Physics*—J. Harrod, B.Sc. *Law*—J. J. Watling, B.A., LL.B. *Botany*—C. Barnard, B.Sc. *Medicine*—A. J. H. Stobo, M.B., Ch.M.; J. C. Storey, M.B., Ch.M.; F. W. Smith, B.Sc.; D. H. K. Lee, B.Sc.

THE WOMEN'S COLLEGE (undenominational). Principal—Miss S. J. Williams, M.A. Melb. and Syd., Lectr. in *Classics*. Tutors: Miss A. MacLellan, B.A. (*French and German*); Miss P. Nicol, M.Sc. (*Physics and Maths.*); Mrs. A. Watt, M.A. (*Philosophy*); Miss T. Reynolds (*Chemistry*); Miss E. M. Tildesley, M.A. (*English*).

SANTA SOPHIA HALL (R.C. Women). Principal—Rev. Mother J. McRory. Lectrs.: *English and History*—G. Percy-Dove, M.A. *Latin*—F. J. H. Letters, M.A., LL.B. *Maths.*—P. M. Nicol, M.Sc., and G. Stayte, B.A. *Physiology*—D. Lee, M.Sc. *Psychology*—N. Hales, B.A.

## GENERAL INFORMATION

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted a Royal Charter in 1858. Its development has been largely due to private benefactions, notably those of J. H. Challis—£250,000—in 1880, T. Fisher—£30,000 for Library—in 1885, P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904, W. O. Watt, £78,354, 1925–1928, and G. H. Bosch, £249,000, 1927–1928. Under the will of Sir S. McCaughey it receives an annual income which amounted in 1928 to £21,900. In 1912 the Statutory endowment was raised from £10,000 to £20,000, with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 nominees of the Govr. and Parliament (one-fourth of the whole number). In 1917–18 the Statutory endowment was further increased to £32,000, including £2000 for the new School of Archit. In 1919 the State provided £50,000 a year for 6 years for additional buildings. The Faculties were in that year increased from 4 to 10. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

The LIBRARY, 150,000 vols., receives about 1800 serial publications. MUSEUMS: Nicholson collection of Egypt., Greek, Roman, and Medieval Antiqu. (4000 specimens); Macleay Nat. Hist.; Anat., Geol., and Zool.; Obstetric, Materia Medica. LABORATORIES: Schools of Med., Engin., and Archit. (atelier), Bot., Chem. (including Metall. and Research), Geol. (with rock analysis Research), Phys., Zool. The ROYAL PRINCE ALFRED HOSPL., erected on the Univ. grounds as a general hospl. and school, has 518 beds. Gladesville mental hospl. recognized by Camb. for clinical work for Dip. Psych. Med.

FACULTIES. Arts, Law, Med., Science, Engin., Dent., Vet. Sc., Agric., Econ., Archit.

AUSTRALIAN INSTITUTE OF TROPICAL MEDICINE (see App. XXIV. (B. II.)). By arrangement with the Univ. the Institute acts as the teaching and examn. centre for the Univ.'s Diploma of Trop. Medicine and Hygiene. A post-graduate Certif. of Training in Trop. Medicine and Hygiene is also issued by the Commonwealth Dept. of Health, the teaching requirements being identical with those for the Diploma.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—Honours B.Sc., B.Sc. in Agric. (3 after Agric. Coll. course), B.Ec., LL.B., B.D.S., B.V.Sc., B.E. (in Civil Engineering, Mechanical and Electrical Engineering, Mining and Metallurgy, or Engineering Technology); 5 yrs.—B.Arch.; 6 yrs.—M.B., B.S.; 2 yrs.' advanced study or research (after full 3 yrs.' course at another Univ.)—B.A. or B.Sc. The LL.B. qualifies conditionally for admission to the bar. Law students usually take the B.A. first, selecting Law subjects in 3rd yr., and complete combined course in 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articulated clerk. HIGHER DEGREES. Obtainable by bachelors of 2 yrs.' standing—M.A., M.Ec., LL.D., M.D., M.S., M.Sc.; 3 yrs.—D.Sc., M.E.; 5 yrs.—D.Sc. Eng.; D.Dent.Sc.; D.V.Sc., D.Sc.Agr. DIPLOMAS. Educn. (for graduates in Arts or Sc.), 1 yr.'s course; Com., 3 yrs.; D.P.H.; D.T.M.; Psychiatry; Anthropology; Journalism; Public Administration. Candidates for the Diploma of the Pharmacy Board have to attend courses in the Univ.

RECOGNITION OF STUDIES ELSEWHERE. A considerable portion (in Med. 3 yrs.) of the curriculum for a Degree must be taken in Sydney. Holders of the Diploma of the *Hawkesbury Agricultural College* or any college of similar standing who have passed the Intermediate Certificate Examn. in matriculation subjects may be admitted as matriculated students in Vet. Sc. or Agriculture.

SCHOLARSHIPS, ETC., FOR GRADUATES. Junior Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof.; 6 post-grad. Scholarships of £200 each and 2 of £300 are awarded annually for scientific study and research in the Univ.; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s; 4 others of £300 p.a., and 2 Scholps. of £250 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

RESIDENCE. The four denominational Colls. (v. *supra*) provide accommodation for about 260 students; the Women's Coll. for about 70, and Sancta Sophia Hall for about 35 R.C. women students.

UNIVERSITY EXTENSION LECTURES are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee of the Univ. and Workers' Educl. Assocn. of N.S.W. In 1928 the Govt. grant

for this purpose was £6370; 58 classes were at work, including 1413 effective students.

**ADULT MATRICULATION.** Persons of distinct educational merit who have attained the age of 25 yrs. may be admitted as matriculated students in the Faculties of Arts, Science, and Econ.

**PUBLICATIONS.** *Calendar* pubd. in June, 3s. 6d., with annual report and list of publicns. of Univ. Staff; Reprints of Scientific Papers by members of the Staff; *Hermes*, an undergrads.' mag., 5s. p.a. (3 issues); The *Union Recorder* (weekly during Term).

## THE YEAR 1928, 1929

**BENEFACTIONS.** Estate of the late W. O. Watt (additional), £6172; Estate of the late Alice R. Pearce, £8280 for Cancer research; Estate of the late Prof. Liversidge, £2500 for research lectureship and scholarships; G. H. Bosch, £222,000 for establishment of Chairs in the Med. School and for building and equipping of laboratories.

**RETIREMENTS.** Dr. G. H. Abbott, Dr. J. M. Byrne, Dr. P. G. Carter, Dr. S. Gillies, Mr. I. Kitakoji, Dr. C. B. Lowe, Dr. W. G. Mansfield, Mr. R. Ovington, Mr. K. E. Richardson, Dr. L. J. Shortland, Dr. N. R. Smith, Dr. C. J. Walters.

**DEATHS.** Dr. H. J. Clayton, Asst. Prof. Craig, Prof. G. A. Wood.

**STUDENTS.** Matriculated students, 2010; post-graduate students, 115; non-matriculated students, 395.

**DEGREES.** M.A., 16; B.A., 153; LL.B., 68; M.D., 1; M.B., 63; B.S., 49; Ch.M., 10; M.Sc., 6; B.Sc., 50; B.Sc.Dom., 1; B.E., 34; D.D.Sc., 1; B.D.S., 8; D.V.Sc., 1; B.V.Sc., 1; B.Sc.Agr., 6; B.Ec., 20; B.Arch., 6. Total, 494.

# UNIVERSITY OF TASMANIA, HOBART

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—HON. SIR NEIL ELLIOTT LEWIS, K.C.M.G., M.A., B.C.L.

VICE-CHANCELLOR—W. J. T. STOPS, LL.B.

REGISTRAR—LT.-COL. L. R. THOMAS, D.S.O., BARR.-AT-LAW.

LIBRARIAN—E. MORRIS MILLER, M.A., LITT.D.

## PROFESSORS, LECTURERS, ETC.

*Accountancy and Auditing*  
Hewer, A. R., A.I.C.A. Lectr.

*Biology* [Ralston Prof.  
Flynn, T. T., D.Sc. Syd.

*Botany*  
Rodway, L., C.M.G., F.L.S. Lectr.

*Chemistry*  
MacLeod, P. J., B.A. N.Z. Lectr.  
Kurth, E. E., B.Sc.  
Lectr. (Applied Chem.).

*Classics*  
Dunbabin, R. L., M.A. Ox. Prof.

*Economics*  
..... Prof.  
Hytten, T., M.A., Acting Prof.  
Lectr.  
Billing, G. C., B.A. (Hist. and E.)  
Lectr.

Reid-McIlreavy, Miss M. L.,  
B.Com. Asst. Lectr.

*Education*  
Johnson, J. A., M.A. N.Z. Lectr.

*Engineering*  
Burn, A., B.E. Syd., M.Sc. Prof.  
Tuck, H. P., B.Sc., B.E. Adel.  
Lectr. (Elec. E.).  
Schneider, W. H., B.E. Adel.  
Lectr. (Mech. E.).

Field, J.  
Lectr. (Drawing and Design).

*English Literature*  
Taylor, A. B., M.A. Ox. Prof.

*Geology*  
Lewis, A. N., M.C., LL.M. Lectr.

*History*, v. also Econ.  
King, C. S., M.C., M.A. Ox., B.A.  
Lectr.

*Law*  
McDougall, D. G., M.A., B.C.L.  
Ox., M.A., LL.D. Melb. Prof.  
Griffiths, P. L., M.A. Melb., LL.B.  
Lectr.

*Mathematics*  
McAulay, A., B.A. Camb., M.A.  
Melb. Research Prof.  
Pitman, E. J. G., M.A., B.Sc.  
Melb. Prof.  
Lowenstein, Miss E. R., M.A.  
Melb. Lectr.

*Modern Languages*  
Malthus, C., M.A. N.Z. Lectr.

*Psychology*  
Miller, E. Morris, M.A., Litt.D.  
Melb. Assoc. Prof.

*Physics*  
McAulay, A. L., M.A. Camb.,  
Ph.D. Manc., B.Sc., F.Inst.P.  
Prof.

### Tutorial Class Lectrs.

Hytten, T. (Director), the Lectrs.  
in Economics, and 4 others.

## AFFILIATED SCHOOLS

ZEEHAN SCHOOL OF MINES AND METALLURGY.

MT. LYELL SCHOOL OF MINES AND INDUSTRIES.

HOBART TECHNICAL COLLEGE.

LAUNCESTON TECHNICAL COLLEGE.

## GENERAL INFORMATION

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ. was, in 1915, granted a Royal Charter. To the original Faculties—Arts, Science, and Law—Commerce was added in 1919 and Engineering in 1922. The annual Govt. grant is £11,740.

**ADMISSION OF PERSONS OF MATURE AGE.** Persons not below 25 yrs. of age who satisfy Board of Studies that they possess sufficient qualifications for the courses they propose to pursue may be exempted from the ordinary requirements for matricn.

**LIBRARY**, 20,000 vols. **LABORATORIES**: Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. **OBSERVATORY**, 8" reflector telescope.

**DEGREE COURSES**: 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course); 4 yrs., B.Com., B.Eng. **HIGHER DEGREES**. Open to Bachelors of 2 yrs.' standing, M.A., M.Sc., LL.M., M.Com.; 3 yrs., D.Sc.; to Masters of 3 yrs.' standing, LL.D. **DIPLOMAS** of the Affiliated Schools: Metal Mining; Metall., Chem., and Assaying. **CERTIFICATE** of Commerce, 2 yrs.' course.

**UNIVERSITY EXTENSION.** Tutorial classes, annual grant, £1780.

**PUBLIC EXAMINATIONS.** Intermediate and Leaving; Music (held in conjunction with other Australian Univs.).

**PUBLICATIONS.** *Calendar* (Aug.), 2s.; *Pub. Examn. Manuals*, 2s.; *Degree Examn. Papers*, 1s. Univ. news appears in Hobart *Mercury*. Students' Magazine, *Platypus*.

## THE YEAR 1928, 1929

**EXTRA-MURAL WORK.** W.E.A. and Tutorial Classes.

**BENEFACTIONS.** Carnegie Corporation of New York, 5000 dollars for extension of Adult Education.

**VISITS** of teachers from other Universities. Sir John Russell, D.Sc., F.R.S., Director of the Rothamsted Experimental Station.

**STUDENTS.** Full-time: total, 227, incl. 4 graduates. Part-time: total, 75, incl. — graduates.

**DEGREES.** B.A., 12; B.Sc., 4; M.Sc., 1; B.E., 5; LL.B., 4; B.Com., 5.

# UNIVERSITY OF WESTERN AUSTRALIA, PERTH

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—HON. A. J. H. SAW, O.B.E., M.L.C., M.A., M.D.

PRO-CHANCELLOR—CECIL ANDREWS, Litt.D.

VICE-CHANCELLOR—Emeritus Professor H. E. WHITFIELD, B.A., B.E., M.I.M.M.

WARDEN OF CONVOCATION—ROBERTA H. M. JULL, M.B., C.M.

CLERK OF RECORDS AND EXAMNS.—A. S. PRESHAW, B.A., A.A.I.S.

ACCOUNTANT AND CLERK OF CONVOCATION—R. E. PARKER, L.I.C.A., A.A.I.S.

LIBRARIAN—M. E. WOOD, B.A.

## PROFESSORS AND LECTURERS, ETC.

### *Agriculture*

Paterson, J. W., B.Sc. Edin.,  
Ph.D. Leip. Prof.

Teakle, L. J. H., B.Sc., Ph.D.  
Calif. Lectr.

Hampshire, P. G. Lectr.

Wickens, G. W. Lectr.

Gardner, C. A. Lectr.

Pittman, H. A., B.Sc. Agric. Syd.  
Lectr.

### *Architecture*

Wright, A. R. L., L.R.I.B.A.,  
F.R.I.A.W.A. Lectr.

### *Biology*

Nicholls, G. E., D.Sc. Lond.,  
A.R.C.Sc. Prof.

Bennet, E. W., M.Sc. N. Zeal.  
Lectr.

Barnes, Helena M., B.Sc. Demr.

### *Botany*

Reed, Eileen R. L., M.Sc. Adel.  
and Tor. Lectr.

### *Chemistry*

Wilsmore, N. T. M., D.Sc. Melb.,  
F.I.C. Prof.

Tattersall, G., M.Sc. Manc., F.I.C.  
Assoc. Prof.

Elliott, G. A., Ph.D. Lond. Lectr.  
Babington, P. Demr.

### *Classics*

Wood, G., M.A. Aberd. and Oxon.  
Assoc. Prof.

### *Education*

Cameron, R. G., M.A. Syd. Prof.

### *English*

Murdoch, W. L. F., M.A. Melb. [Prof.  
Thompson, H. S., M.A. Lectr.  
Sinclair, F., M.A. N. Zeal. Lectr.

### *Fine Art*

Morison, G. P. Lectr.

### *Forestry*

Kessell, S. L., M.Sc. Adel., Dip. For.  
Ox. Lectr.

### *French and German*

Clarke, Margaret A., M.A. Syd.,  
D. ès L. Paris Lectr.

D'Herbois, R. C. Lectr.

Graebner, R. M. Lectr.

### *Geology*

Clarke, E. de C., M.A. N.Z.  
Assoc. Prof.

Hosking, L. F. V., B.A. Asst.

Terrill, S. E., B.Sc. Demr.

*History and Economics*

Shann, E. O. G., M.A. Melb. Prof.  
 Alexander, F., B.A. Melb. and Ox.  
 Lectr.

*Law*

Beasley, F. R., B.A. Ox., LL.B.  
 Syd. Prof.  
 McDonald, R. R., LL.B. Adel.  
 Lectr.  
 Leake, F. W. Lectr.  
 Dwyer, J. P. Lectr.  
 Stow, F. L., LL.D. Lectr.  
 McMillan, J. F. Lectr.

*Mathematics*

Weatherburn, C. E., M.A., D.Sc.  
 Prof.  
 Moir, Margaret B., M.A., D.Sc.  
 Glas. Lectr.

*Mining and Engineering*

Fraenkel, P. H., B.E.E. Melb.,  
 M.I.E.E., M.I.E.A., M.I.V.E.  
 Assoc. Prof.  
 Bowden, A. T., B.Sc. Edin.  
 Lectr.  
 Blakey, O. F., M.E. Q'land.,  
 A.M.I.E.A. Lectr.  
 Wiseman, W. R. B., M.Sc. Manc.  
 Asst. Lectr.  
 O'Brien, P. V., M.Inst.C.E.,  
 M.I.E.A. Lectr.  
 Hayman, W. G., B.Sc., B.E. Lectr.  
 Townsend, W. G. Asst.

*Music*

Leckie, A. J., Mus.Bac. Adel.,  
 F.R.C.O. Lectr.

*Philosophy*

Fox, A. C., M.A. Syd. Assoc. Prof.  
 Stoneman, Ethel T., M.A. Lectr.  
 Fowler, H. L., M.A., Ph.D. Lond.  
 Lectr.  
 Grubb, Mabel H., B.A. Lectr.

*Physics*

Ross, A. D., M.A., D.Sc. Glas.,  
 F.R.S.E., F.R.A.S., F.Inst.P.  
 Prof.

Shearer, J., B.A., M.Sc. Melb.  
 Lectr.  
 Nimmo, R. R., M.Sc. N. Zeal.,  
 Ph.D. Camb. Lectr.  
 Everson, D. W. Demr.

*Surveying*

Nunn, G. M., L.S. Lectr.

*Veterinary Science*

Le Soeuf, E. A., B.V.Sc. Melb.,  
 F.Z.S. Lectr.  
 Weston, E. A., B.V.Sc. Asst.

*University Extension*

10 Tutors for Correspondence  
 Courses.

*Adult Education*

Sinclair, F., M.A. N. Zeal.  
 Director.  
 4 Tutors.

## AFFILIATED SCHOOLS

PERTH TECHNICAL COLLEGE, SCHOOL OF MINES, KALGOORLIE, and MURESK  
 AGRICULTURAL COLLEGE.

## GENERAL INFORMATION

Established by Act of the State Legislature in 1911, the Univ. opened its first session in 1913. It has a large endowment of land granted by Govt., including a site of 165 acres for buildings, and receives an annual grant of £30,000. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES. Agric., Biol., Chem., Geol., Engin., Phys., Psych., Vet. Sc.

FACULTIES. Arts, Sc. (including Agric.), Engin. (including Surveying), Law.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—B.A. (Hons.), LL.B. and

B.Sc. (Hons.) ; 5 yrs.—B.E. (a sandwich system during last 4 yrs.) and B.Surv. (including 2 yrs.' field work). First year Med. course in Fac. of Sc.

EVENING CLASSES are held in the Arts Faculty only, but certain Science classes may be taken in the evenings at affiliated Colleges.

HIGHER DEGREES. M.A., LL.M., LL.D., M.Sc., M.E., Litt.D., D.Sc.

DIPLOMAS. Education, Agric., Journalism.

PUBLIC EXAMINATIONS. School Certifs. (Junn. and Leaving), Art Certif., Music, and Elocution.

ADULT MATRICULATION. Persons who have attained the age of 25 yrs. may be admitted as matriculated students if the Faculty concerned is satisfied that they possess sufficient educational qualifications. The Faculty of Arts requires a modified examination ; other faculties do not require any examination.

PUBLICATIONS. *Calendar* (Dec.), 2s. 6d. ; *Examination Papers* ; *Public Examn. Manuals* ; *Black Swan* (Students' Magazine).

## THE YEAR 1928, 1929

BENEFACTIONS. The annual Govt. Grant was this year increased to £30,000. The Carnegie Corporation made a grant of 5000 dollars for Adult Education work.

BUILDINGS. Work is in progress on the Main Hackett block of buildings (contract price, £181,000), the foundation stones of which were laid on April 23, 1929. Plans are in hand for the erection of Physics, Chem. and Agric. Sci. buildings on the Crawley site. St. George's Coll., a Residential Coll. for Univ. students (to cost about £100,000), is nearing completion.

NEW DEVELOPMENTS. This year a Diploma in Education has been established. A director of Adult Education has been appointed.

EXTRA-MURAL WORK. An extensive series of Extension Lectures has been given in Perth and country towns, and weekly lectures have been broadcasted. Summer schools in Econ., Educ., and Phys. Sci. were held in Albany during Jan., and were well attended, largely by country teachers. Six groups in Perth and Fremantle have commenced tutorial classes under the new Adult Education Scheme.

NEW DEPARTMENT. From the beginning of 1929 Maths. became a separate dept., Prof. Weatherburn being appointed to the chair. Prof. Ross, who occupied the dual chair of Maths. and Physics is now Prof. of Physics.

HONORARY DEGREE. The Hon. Degree of Litt.D. was conferred upon Mr. Cecil Andrews, M.A., who this year retired from the position of Pro-Chancellor, which he has occupied since 1912.

STAFF TRAVELLING. Two members of the staff, Prof. Nicholls (Biol.) and Dr. Margaret B. Moir (Maths.), travelled to Europe on leave, and visited various Univs. and Conferences.

STUDENTS. (i.) Attending Degree or Diploma Courses : Total, 494 ; Full-time, 245 ; part-time, 173 ; external, 37 ; graduates taking higher degrees, 17 ; graduates taking Diploma in Education, 22. (ii.) Taking single subjects : graduates, 38 ; others, 97.

DEGREES. B.A., 27 ; M.A., 2 ; LL.B., 2 ; B.Sc., 9 ; B.Sc. (Agric.), 6 ; M.Sc., 2 ; B.E., 10 ; Litt.D., 1.

# UNIVERSITY OF NEW ZEALAND

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—J. MACMILLAN BROWN, M.A., LL.D. Glas.

PRO-CHANCELLOR—HON. J. A. HANAN, M.L.C.

VICE-CHANCELLOR—Prof. T. A. HUNTER, M.A., M.Sc.

CHAIRMAN, ACADEMIC BOARD—Prof. H. W. SEGAR, M.A. Camb., Auckland.

REGISTRAR—E. T. NORRIS, M.A., Wellington.

AGENT IN ENGLAND—J. W. JOYNT, M.A. Dub., 88 Gower Street, London, W.C.1.

## CONSTITUENT COLLEGES

UNIVERSITY OF OTAGO, DUNEDIN ; CANTERBURY COLLEGE, CHRISTCHURCH ; AUCKLAND UNIVERSITY COLLEGE ; VICTORIA UNIV. COLLEGE, WELLINGTON.

This University, an examining body, was founded in 1870. Its constitution, defined by the N.Z. Univ. Act. 1908 as amended in 1912, 1914, 1915, and 1926, vests the Government of the Univ. in a Council of 23 members, assisted, as regards schemes of study, etc., by an Academic Board representing the College Professorial Boards and a University Entrance Board, of which the Vice-Chancellor is the President, and on which there are representatives of the Academic Board, the Department of Education, and the Secondary Schools. The Council consists of 4 members nominated by the Governor, 8 appointed by the College Governing Bodies, 5 by General Court of Convocation, 3 by the Academic Board, 1 by the Council itself, and the Director of Education. The Chancellor, Pro-Chancellor, and Vice-Chancellor are elected by the Council ; the first (or, in his absence, the second) presides at meetings of the Council. There are no University buildings : the offices are at Wellington.

**MATRICULATION.** Candidates must pass in 5 subjects, including English, Maths., and one language. A candidate who does not pass in Latin or Greek must pass in Physics or Chemistry or Home Science, or Botany or Agriculture. Not more than two of these sciences can be taken ; in the syllabus prominence is given to their practical aspect. The examn. is held in Dec. Special provision is made for exemption of persons not under 25 years of age and students from other Univs.

**TERMS.** A student presenting himself for a Univ. examn. for which the keeping of terms is required must have passed the College examn. in the subjects he offers at the corresponding stage. The terms are : Autumn (March-May), Winter (June-Aug.), and Spring (Sept.-Oct. or Nov.). The subjects in which terms must be kept are : all those of the B.A., B.Sc., B.Sc. in H.Sc., M.B., Ch.B., B.D.S., B.Agr.Sc., B.For.Sc., B.Arc., and LL.B. degree courses ; of the 1st and 2nd Groups of the B.Com. course ; of the Engineering Intermediate examn.

Any student who is on the books of a constituent College, and who has passed its annual examn., is deemed to have kept the terms of the year if he has attended the prescribed courses, *or*, being resident more than 10 miles from

College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, or objects on grounds of religious scruples to such attendance.

DEGREE COURSES: 3 yrs.—B.A., B.Sc., B.Mus., B.Agr.Sc. (including practical work on farm), B.For.Sc.; 4 yrs.—B.Sc. in Home Science, B.Arch. (including 18 mos.' practical work), LL.B., B.E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com., B.Vet.Sc.; 5 yrs.—B.D.S.; 6 yrs.—M.B., Ch.B., B.Med.Sc.

HIGHER DEGREES. M.A., M.Sc., LL.M., M.Com., M.S.; Litt.D., D.Sc., LL.D., M.D., D.D.S., D.Mus. For the Mastership examn. and thesis are required. The Doctorate may be taken by a Bachelor of 5 yrs.' (in Med. 3 yrs.') standing who offers suitable original work and, if in Arts, Sc., or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn.

DIPLOMAS. D.P.H. (9 mos.' course); Journalism, Education, Social Science, Banking, Insurance, Fine Arts, Surveying. *Certificate of Proficiency in Dental Surgery, Shipping Officers' Certificate.*

PROFESSIONAL AND TECHNICAL SCHOOLS. *Law and Commerce* at all the constituent Colls.; *Medical and Dental and Home Science* at Otago; *Engineering* (Civil, Electrical, and Mech.) at Canterbury and Auckland; *Mining and Metallurgical Engineering* at Otago; *Music* at Auckland, Canterbury, and Otago; *Agric.* at Auckland and Wellington; a recognized (but not affiliated) Coll. at Lincoln and at Palmerston N. (Massey College); *Forestry* at Auckland and Canterbury; *Architecture* at Auckland; *Fine Arts* at Canterbury.

"AD EUNDEM" RECOGNITION. Courses completed, or partially completed, at any British chartered or other approved Univ. are accepted *ad eundem*.

SCHOLARSHIPS FOR GRADUATES. In almost every subject of the B.A. or B.Sc. syllabus and in Law, Medicine, Dentistry, and Engineering—£70; Travelling Scholps. in Arts, Science, French, Law, Architecture—£200 (2 yrs.) each, in Engin. and Med.—£150 each; Macmillan Brown Research Scholp. in Agr. (biennial)—£200 (2 yrs. possible). Four National Research Scholarships (£180) are offered annually to graduates of the N.Z. University or other approved persons.

Two first-class return passages between Australia and England are offered yearly by the Orient Co. and P. & O. Co. for grads. of the Univ. proceeding to Europe to continue their studies. The Union S.S. Co. supplements this by a similar concession between N.Z. and Australia. One passage between N.Z. and England is offered by the N.Z. Shipping Co., one by the Shaw, Savill & Albion Co., and one by the Commonwealth and Dominion Line.

ADULT EDUCATION. Classes are conducted under the control of the Council of each College through an Executive Committee on which the Council and the W.E.A. are represented. The Government granted £4520, of which £300 was allotted to each College for W.E.A. and extension classes.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Minutes of Prods. of Senate*, free; *Examn. Papers*, 6d. or 1s. a set; *Reports of Examrs.* (in England and N.Z.), free.

## THE YEAR 1929

It is satisfactory to report, in view of the recommendations of the Royal Commission, 1925, that Massey Agricultural College has been established in the North Island and that the Canterbury School at Lincoln has been strengthened.

The principal recommendations of the Royal Commission are outlined in the *Year Book* for 1929, p. 475. A scheme is under consideration for allowing approved secondary schools to send on accredited pupils who will be admitted to degree courses without passing an entrance examination; the Government inspectorate for these schools is to be made adequate.

The 1928 University Amendment Act empowers the Council to grant Hon. LL.D., D.Sc., D.Litt. and Mus.Doc., but only if there is a recommendation by the Academic Board. It also directs the Council to "appoint one of its members to be the Pro-Chancellor of the University," and empowers it "in its discretion" to "appoint a Vice-Chancellor" for such period and with such salary as it may determine. By the same measure the Government has withdrawn the annual statutory grant made to the University since its foundation, substituting an annual appropriation by Parliament—a change that is regarded as somewhat retrograde.

STUDENTS. Full-time: total, 1868, including 107 graduates. Part-time: 2246, graduates, 153.

DEGREES (1928). B.A., 216; M.A., 88; Litt.D., 1; B.Sc., 60; M.Sc., 32; LL.B., 33; LL.M., 6; B.Com., 16; M.Com., 1; B.D.S., 9; M.B., 34; M.D., 2; M.S., 1; B.E., 21; B.H.Sc., 8; B.Agr., 3; Ph.D., 3; M.H.Sc., 1.

# UNIVERSITY OF OTAGO, DUNEDIN

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—T. K. SIDNEY, B.A., LL.B., M.L.C.

VICE-CHANCELLOR—W. J. MORRELL, M.A., Oxford.

REGISTRAR—H. CHAPMAN, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>		Burt, J. R., L.D.S., R.C.S. Edin.
Reid, G. W., B.Com.	Lectr.	Assoc. Prof.
3 Tutors.		
<i>Accountancy Law</i>		Parkinson, G. H., M.S. Chic.,
	[Lectr.	L.D.S. Eng. Assoc. Prof.
Paterson, J. M., M.A., LL.B.		Siedeberg, Emily H., B.Sc., M.D.,
		Ch.B. (Anæsthetics) Lectr.
<i>Anatomy</i>		<i>Economics</i>
Gowland, W. P., M.D., B.S. Lond.,		Fisher, Allan G. B., Ph.D. Lond.,
F.R.C.S. Eng.	Prof.	B.A. Prof
Durward, A., M.B., Ch.B.	Lectr.	Boraman, W. J., M.A. Asst
Hindenach, J. C. R., M.B., Ch.B.		<i>Education</i> [Prof.
	Asst. Lectr.	Lawson, R., M.A., Litt.D. Melb.
<i>Architecture</i>		McQueen, H. C., M.A. Asst
Miller, E., A.R.I.B.A.	Lectr.	<i>English Lang. and Lit.</i>
Scoular, S. G., B.E.		Ramsay, H., M.A. St. And. Prof.
	Lectr. (Descr. Geom.).	Cameron, G. M., M.A. Asst.
Batham, G. S., B.Sc.		<i>Ethnology</i>
	Lectr. (Appl. Elect.).	Skinner, H. D., Dip.Anth.Camb.,
<i>Biology</i>		B.A. Lectr.
Benham, W. B., M.A. Ox., D.Sc.		<i>Geology and Mineralogy</i>
Lond., F.R.S., F.N.Z. Inst.		Benson, W. N., B.A. Camb., D.Sc.
	Prof.	Syd., F.G.S. Prof.
Fyfe, Marion L., B.Sc.	Asst.	Turner, F. J., M.Sc. Asst.
<i>Botany</i>		<i>Hebrew</i>
Holloway, J. E., D.Sc., F.N.Z.		Hunter, S. F., M.A., B.D. Glas.,
Inst.	Lectr.	D.D. Melb. Lectr.
<i>Chemistry</i>		<i>History</i> [Prof.
Inglis, J. K. H., M.A., B.Sc.,		Elder, J. R., M.A., D.Litt. Aberd.
D.Sc. Edin., F.I.C.	Prof.	McClymont, W. G., M.A. Asst.
Carter, C. L., M.Sc., A.I.C.	Lectr.	<i>History, Constitutional</i>
<i>Classics</i>		Lang, J., M.A., LL.B. Lectr.
Adams, T. D., M.A.	Prof.	<i>Home Science</i>
Turnbull, Mary I., M.A.	Asst.	Strong, Ann G., B.Sc. Columbia
<i>Dentistry</i>		Prof. (Domestic Arts).
Dodds, R. B., D.D.S.	Prof.	

- Pope, A., M.Sc. N.Z., M.A. Tor. Asst. Lectr.  
 Bowbyes, Alice M., Dip.H.Sc. Asst. Lectr.  
*Law*  
 Stephens, A. C., LL.B. (Contracts) [Lectr.  
 Neill, A. G. (Crim. Law) Lectr.  
 Hay, W. G., LL.M. (Jurispr.) „  
 Cook, H. L., LL.B. (Property) „  
 Anderson, P. S., B.A., LL.B. (Property L.) Lectr.  
 Barrowclough, H. E., LL.B. (Proc.) Lectr.  
 Callan, J. B., B.A., LL.B. (Torts) Lectr.  
 Fairmaid, R. L. (Conveyancing) Lectr.  
 White, C. J. L. (Evidence) Lectr.  
 Haggitt, A. N., LL.B. (Rom. Law) Lectr.  
 Barrowclough, C. B., B.A., LL.B. (Conflict of Laws) Lectr.  
 Curzon-Siggers, W. A., M.A., LL.M. Camb. (Pub. Intern. Law) Lectr.  
*Mathematics, Pure and Applied*  
 Bell, R. J. T., M.A., D.Sc. Glas. Prof.  
 Orton, A. A., B.A., M.Sc. Lectr.  
*Metallurgy and Assaying*  
 Black, H., A.O.S.M. Lectr.  
*Mining*  
 Park, J., M.A.I.M.E., M.I.M.M., F.G.S., F.N.Z. Inst. Prof.  
*Modern Languages*  
 Thompson, G. E., Litt.D. Prof.  
 Barron, Vida M., M.A. Asst.  
*Music* [Lectr.  
 Galway, V. E., Mus.D. Melb.  
*Philosophy, Ment. and Moral*  
 Dunlop, F. W., Ph.D. Jena, M.A. Prof.  
 Bates, J. M., M.A. Asst.  
*Physics*  
 Jack, R., M.A., D.Sc. Glas., Ph.D. Gött. Prof.  
 Focken, C. M., B.M.E., B.Sc. Melb., Ph.D. Ox.  
 Beverly-Mackenzie Lectr.  
 Blackie, Agnes R., M.Sc. Asst.  
*Physiology*  
 Malcolm, J., M.D. Edin. Prof.  
 Fogg, W. S., M.B., Ch.B. Asst.  
*Medicine (for subjects of the first 2 yrs.—Anat., etc., v. supra)*  
*Anæsthetics* [Tutor.  
 Whyte, M. K. B., M.B., Ch.B.  
*Bacteriology and Pub. Health*  
 Hercus, C. E., D.S.O., O.B.E., M.D., B.D.S., D.P.H. Prof.  
 Thomson, E. F., M.B., Ch.B. Lectr.  
*Clin. Med. and Clin. Surg.*  
 The Hon. Staff of the Dunedin Hospl. Lectrs.  
*Clin. Med. and Therap.*  
 Fitchett, F. W. B., M.D., C.M. Edin. Prof.  
 Macdonald, W. M., C.B.E., B.Sc., M.D.  
 Moore, S. A., B.A., M.D. Lectr.  
 Murray, C. S., M.B., Ch.B. Asst. Lectr.  
*Diseases of Children*  
 Williams, E. H., M.B., Ch.B., M.R.C.S. Eng. Lectr.  
*Ear, Nose, and Throat*  
 Hall, A. J., M.B., Ch.B., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.  
*Gynæcology*  
 North, C., M.B., Ch.B., M.R.C.S., L.R.C.P. Lond. Tutor, Asst. Lectr. on Clin. G.  
*Medicine*  
 Carmalt-Jones, D. W., M.A., D.M. Ox., F.R.C.P. Lond. Prof.  
 Colquhoun, D., M.D. Lond. F.R.C.P., M.R.C.S. Emeritus Prof.  
 Taylor, C. A., M.B., Ch.B. N.Z., M.R.C.P. Lond. Tutor.

*Mental Diseases*

Gribben, St. L. H., M.D. Lectr.

*Midwifery and Gynæc.*Riley, F. R., F.R.C.S. Eng.,  
L.R.C.P. Lond. Prof.Ritchie, R. I., M.B., Ch.B.,  
M.R.C.S. Eng., L.R.C.P.  
Lond. Tutor in Midwifery.North, C., B.A., B.Sc., M.B., Ch.B.,  
M.R.C.S., L.R.C.P.

Tutor in Gynæc.

Fitzgerald, G. P., M.B., Ch.B.

In charge of normal cases.

*Ophthalmology*Ferguson, Sir Henry L., C.M.G.,  
M.A., M.D. Dub., F.R.C.S.I.,  
L.K.Q.C.P.I. Prof

Asst. Lectrs. in Clin. O. :

Carswell, W. E., M.B., Ch.B.,  
F.R.C.S.

Ross, K., M.A., M.B., C.M., D.P.H.

Cottrell, A. J., M.A., M.Sc., M.B.,  
Ch.B.*Pathology*

D'Ath, E. F., M.D. Prof.

Fowler, E. F., M.B., Ch.B. Asst.  
Cook, D., M.D., M.R.C.P. Edin.,  
D.P.H. Clinical Pathologist,  
Asst.*Surgery*Bell, F. Gordon, M.B. Edin.,  
F.R.C.S. Prof.Barnett, L. E., C.M.G., M.B.,  
C.M. Edin., F.R.C.S.

Emeritus Prof.

Lectrs. on Clin. S. :

Newlands, W., M.B., Ch.B. Edin.,  
F.R.C.S. Edin., M.A., B.Sc.Fergus, T., M.B., Ch.B. N.Z.,  
F.R.C.S.E.

Batchelor, F. S., F.R.C.S.

Tutors :

White, J. R., M.B., F.R.C.S.  
Eng.Jenkins, J. A., M.B., Ch.M.,  
F.R.C.S. Eng.Fulton, R. A. H., M.B., Ch.B.,  
F.R.C.S. Eng.*Adult Education*11 Lecturers to W.E.A. Classes.  
Secy.—G. McCracken.

## GENERAL INFORMATION

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Art, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod. It receives annual Government grants of approximately £10,000.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

**CLASS FEES.** In separate subjects—in Arts generally, £5 : 5s. for complete course ; Science, £8 : 8s. ; Law from £1 : 15s. to £5 : 5s. ; Commerce, £1 : 10s. to £5 ; Medicine, all subjects aggregate (6 years), about £218, exclusive of Univ. fees, £45 : 3s. ; Dentistry (4 years), £149, exclusive of Univ. fees, £24 ; Mining (4 years), £134 ; Home Science (4 years), £125 : 4s.

**LIBRARY,** 21,000 vols. ; also the Hocken collection of pamphlets and MSS. bearing on the History of N.Z. **MUSEUMS :** Biol., Ethnog., Geol., Anat., Path. **LABORATORIES :** Phys., Chem., Physiol., Bact., Path.

**FACULTIES.** Arts and Science, Medicine, Dentistry, Mining, Law, Commerce, and Home Science.

**COURSES:** for degrees in all the Faculties; D.P.H.; Certif. in Dent. Surg.; Associateship of Otago School of Mines (A.O.S.M.), 4 yrs.; Diploma of Mining, Metallurgy, Geology, or Land and Mine Surveyor, 2 yrs.; Associateship in Home Science, 4 or 3 yrs.

**RESEARCH SCHOLARSHIPS, ETC.** Edmond Industrial (Chemical) Research, £210, tenable 2 yrs.; Smeaton Research in Experimental Science, £60 for first year and £210 for second. The first is open to any person domiciled in N.Z., the second to graduates of Otago. Ross (Knox College), £150, 2 yrs.; Sir R. Stout (Economics), £50; and Anna P. Stout (Economics and History and Home Science—women); all open to graduates of Otago. **OTHER RESEARCH FUNDS:** Roberts, Deans, and Barnett endowments, £2000 each for research in med. and surg.

**HOSTELS.** Presbyterian for men and women; Anglican for men; Home Science Students'. Cost of board and lodging, 30s. to £2 a week.

**UNIV. EXTENSION.** Since 1916 classes in connexion with the W.E.A. in Dunedin and Invercargill have met with very great success.

## THE YEARS 1928, 1929

**BENEFACTIONS.** Dunedin Savings Bank, £2000 for Museum Extension, and £1000 for Commerce; Mr. John Edmond, £500 additional for Fellowship in Chem. Research; Mrs. McG. Brown, £500 for schp. in Commerce. In 1929: Dunedin Savings Bank, £500, establishment of Medical Students' Loan Fund; Sundry donors, £1500, establishment of Medical Students' Loan Fund; Invercargill Savings Bank, £500 Scholarship; Miss Turnbull-Thomson, £500 Scholarship.

**NEW BUILDINGS.** Extension to Museum.

**RESIGNATION.** Dr. A. M. Drennan resigned post of Prof. of Pathology to take up similar post in Queen's University, Belfast. His post is taken by Dr. E. F. D'Ath.

**STUDENTS.** Total, 1191, including 68 graduates and 143 non-matriculated students. In 1929: Total 1154, including 86 graduates.

**DEGREES OBTAINED IN 1928.** D.Lit., 1; M.D., 3; Ph.D., 1; M.A., 15; M.Sc., 5; M.Ch., 1; M.H.Sc., 1; M.Com., 1; B.A., 50; B.Sc., 13; LL.B., 8; M.B., Ch.B., 31; B.Eng., 2; B.D.S., 11; B.H.Sc., 8; B.Com., 1; B.Agr., 1.

# CANTERBURY COLLEGE, CHRISTCHURCH

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF BOARD OF GOVERNORS—Colonel the Hon. G. J. SMITH,  
C.B.E., M.L.C., T.D.

RECTOR—Prof. JAMES HIGHT, Litt.D.

REGISTRAR—C. C. KEMP.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting, etc.</i>		Robinson, W.F. (Surveying, etc.)	
Cordery, L. L., F.I.A.N.Z.	Lectr.		Lectr.
Smith, W. A.	Asst. Lectr.	Steele, S., B.Sc.Eng.	
<i>Biology</i>		Prof. (Mech. E.) (Dean	
Percival, E., B.Sc. Leeds	Prof.	Fac. Eng.).	
Foweraker, C. E., M.A.	Lectr.	Pollard, T. R.	Lectr. (El. E.).
Herriott, Eliz. M., M.A.	Asst. Lectr.	Grundy, R. H., Ph.D., B.Eng.	
<i>Chemistry</i>		Liverpool	Lectr.
Denham, H. G., M.A., M.Sc., D.Sc.		<i>English</i>	[Prof.
Liverpool, Ph.D. Heidelberg		Wall, A., M.A. Lond., B.A. Camb.	
(Dean Fac. Sci.)	Prof.	Cane, T. W., M.A.	Lectr.
Packer, J., M.Sc.	Lectr.	<i>Forestry and Botany</i>	
Holland, H. C., M.Sc.	Demr.	Foweraker, C. E., M.A.	Lectr.
<i>Classics</i>		Hutchinson, F. E., B.Sc. F. Montana	
Pocock, L. G., M.A.	Prof.	Lectr. in Forest Utilization.	
Broadhead, H. D., Litt.D. N.Z.,		<i>French and German</i>	
B.A. Camb. and N.Z.	Lectr.	Blunt, T. G. R., M.A. Ox.	Prof.
<i>Economics</i>		White, J. F. D., B.A., M.Sc.	
Tocker, A. H., M.A. (Dean Fac.		(French)	Lectr.
Com.)	Prof.	<i>Geology and Geography</i>	[Prof.
Lawn, G., M.A.	Lectr.	Speight, R., M.A., M.Sc., F.G.S.	
<i>Education</i>		Sylvester, S. J. H., M.Sc.	
Shelley, J., M.A. Camb. (Dean		Asst. Lectr.	
Fac. Soc. Sc.)	Prof.	<i>History</i>	
Purchase, J. E., M.A.	Lectr.	Hight, J., M.A., Litt.D.	Prof.
Beeby, C. E., M.A., Ph.D.	Lectr.	Candy, Alice, M.A.	Lectr.
<i>Engineering</i>		<i>Journalism</i>	
Calvert, G. G.		Henderson, A. G., B.A.	Lectr.
Acting Prof. (Civ. E.).		<i>Law</i>	
Morrison, A. F.	Lectr. & Demr.	.....	Lectr.
Bamford, P. G., B.E., B.Mech.		Cuthbert, R. A., B.A., LL.B.	
Research Asst.		(Indust. and Comml. L.)	
Powell, P. H., M.Sc. Manc., M.Eng.		Asst. Lectr.	
Liv., M.I.E.E.		Hanna, H. H., LL.B.	Asst. Lectr.
Prof. (Elec. E.).		Taylor, A. S., B.A., LL.M.	
Hayman, I., B.E.	Demr.	Lectr. (Dean Fac. Law).	
McLennan, R. A., B.E.	Asst.	Gresson, K. M.	
		Asst. Lectr. (Property, etc.).	
		Archer, K. G., LL.B.	Asst. Lectr.

Brassington, A. C., LL.B.	Black, Jane L., Mus.B. Asst. Lectr.
Asst. Lectr.	<i>Philosophy, Mental and Moral</i>
Brown, A. W., LL.B. Asst. Lectr.	Salmond, C. F., M.A. Prof.
Gee, L. W., LL.M. Asst. Lectr.	Field, H. E., M.A. Asst. Lectr.
<i>Mathematics and Nat. Philos.</i>	<i>Physics</i>
Saddler, W., D.Sc., M.A. St. And.	Farr, C. C., D.Sc. Adel. Prof.
Darwin, L. J., M.A. Adel. Actg. Prof.	Macleod, D. B., M.A., D.Sc.
Struthers, J., M.A. Asst. Lectr.	Lectr.
<i>Music</i>	<i>Adult Education</i>
Bradshaw, J. C., Mus.D. Manc.,	Director: Prof. J. Shelley, M.A.
F.R.C.O., L.R.A.M., A.R.C.M.	Camb.
(Dean Fac. Music) Lectr.	Staff-Tutor: Johnson, J., M.A.

## GENERAL INFORMATION

Created by Provincial Ordinance, 1873, and affiliated to the Univ. of N.Z., 1874. Value of lands, buildings, equipment, etc., over £1,015,000, including £507,376 for the High Schools, School of Art, Museum, and Public Library controlled by the Board of Govrs. Annual Govt. subsidies and grants (1928), £46,649, including £5430 for *Engineering* (the National School of Engin. in N.Z.) and £8552 for College. The *Rector* is the academic head of the College and the permanent Chairman of the Professorial Board. LABORATORIES: Biol., Chem., Engin., Phys., Educational Psychology, Forestry.

DEGREE COURSES in Arts, Science, Mus., Com., Forestry Science, and Engin., and Certif. or Diploma courses in Engin. (3 yrs.), Com. (2 yrs.), Journalism, Education, Forestry, Banking, Fine Arts, and Social Science. Evening courses in Mech. and Elec. Engin. and Com.

CLASS FEES. Per session in each subject in Arts or Science, 5 gs.; Laboratory Research, 8 gs.; Law and Commerce subjects, 2 to 4 gs.

RESIDENCE. Hostels for men (82) and women (36) students.

SCHOLARSHIPS include one of £50 for one yr., open to students in their 3rd yr.; one of £50 annually, tenable for 3 yrs., to entrants; one of £50 for 2 yrs. for students not yet eligible for final section of B.A.; 4 of £50 for 3 yrs. for residents in the four Univ. districts of N.Z.; one of £85 for 4 yrs. to a pupil of Nelson Boys' Coll. for the B.Sc. and M.Sc. degrees; 2 of £25 or £45 for 3 yrs.; one of £50 for research in Science, open to graduates, renewable up to 3 yrs.; one of £150 p.a. for 2 yrs. plus £38 for travelling, tenable at Royal Holloway Coll., England; one of £150 in Engineering, open to B.E., tenable outside N.Z.; one (Hartley) for women graduates, offered every third year, £300 p.a. for 3 yrs. tenable ordinarily at Oxford, Cambridge, or London. There is a Students' Loan Fund of £700.

PUBLICATIONS. *Calendar* in March. Annual Statement of the Chairman in June. *College Review*, 2 issues a year, subscription 4s. *Annual Report, Trans. of Coll. Engineering Soc.*, 2s. 6d.

## THE YEAR 1928

BENEFACTIONS. £2000 by Emer. Prof. W. P. Evans for Nelson Sci. Scholarships; Library on Architecture and 4000 lantern slides by S. H. Seager; Dr. Chilton, his library of biological books and unique collection of crustacea.

STUDENTS. Full-time: total, 373, including 78 graduates. Part-time: 719, including — graduates. Total, 1092.

DEGREES OBTAINED. B.A., 45; M.A., 28; B.Sc., 12; M.Sc., 4; LL.B., 5; B.Com., 2; B.E., 15; B.Agr., 2; Diploma in Education, 4; Diploma in Social Science, 3; Diploma in Journalism, 3.

# AUCKLAND UNIVERSITY COLLEGE

VISITOR—THE MINISTER OF EDUCATION.

PRESIDENT OF COUNCIL—Hon. Sir G. FOWLDS, C.B.E.

VICE-PRESIDENT OF COUNCIL—KENNETH MACKENZIE, M.D., M.Ch.,  
F.R.C.S.

REGISTRAR—M. R. O'SHEA, B.Com.

LIBRARIAN—ALICE E. MINCHIN, B.A.

## PROFESSORS, LECTURERS, ETC.

### *Accounting, etc.*

Seaman, A. M., F.I.A.N.Z. Lectr.  
Shove, H. W., B.Com. Asst. Lectr.

### *Architecture*

Knight, C. R., B.Arch., M.A.  
Liv., A.R.I.B.A. Prof.  
Crookes, S. I. Lectr.  
Chisholm, A. M., A.R.I.B.A.  
Lectr.  
Turkington, Jas. Lectr. (Art).

### *Biology*

Sperrin-Johnson, J. C., M.A.,  
M.Sc., M.B., B.Ch. N.U.I.,  
Litt.D., F.Z.S. Prof.  
Lancaster, T. L., M.Sc. Asst. Lectr.  
McGregor, W. R. Lectr.-Demr.

### *Chemistry*

Worley, F. P., D.Sc. Lond., M.A.,  
M.Sc., D.I.C., F.C.S. Prof.  
Bowell, A. H., F.C.S. Lectr.-Demr.  
Short, W. F., M.Sc. Manc., A.I.C.,  
F.C.S. Lectr.-Demr.

### *Classics*

[Prof.  
Paterson, A. C., M.A. Edin. & Ox.  
Blaiklock, E. M., M.A.  
Asst. Lectr.

### *Dental Mechanics*

Craddock, F. M. Lectr.  
Gleeson, H. L. Demr.

### *Economics*

Belshaw, H., M.A., Ph.D. Camb.  
Rodwell, H. R., M.A. Asst. Lectr.

### *Education*

Fitt, A. B., Ph.D. Leip., M.A.  
Prof.  
Cousins, H. G., M.A. Lectr.

### *Engineering*

Lamb, S. E., B.Sc. Lond., A.R.C.S.  
Eng. (Applied Mechanics,  
etc.) Director, Prof.  
Dawson, C. Lectr. (Elec. E., etc.).  
Harkness, D. E. Lectr. (Civil).  
McLaren, E. J. R.  
Demr. & Asst. Lectr.  
i Workshop Instructor.

### *English*

Egerton, C. W., M.A. Dub. Prof.  
Ardern, P. S., B.A. Ox., M.A.  
Asst. Lectr.

### *Forestry*

Corbin, H. H., B.Sc. Lond., Edin.,  
and Adel. Prof.  
McGregor, W. R. Asst. Lectr.

### *Geology*

Bartrum, J. A., M.Sc., A.R.S.M.  
Prof.

### *Hebrew*

Paterson, A. C., M.A. Ox. Prof.

### *History*

Grossmann, J. P., M.A. Prof.  
Airey, W. T. G., M.A. Lectr.

### *Journalism*

Mulgan, A. E. Lectr.

*Law*

Algie, R. M., LL.M. Prof.  
 Munro, L. K., LL.M. Asst. Lectr.  
 Hogben, J. M., LL.B. Asst. Lectr.  
 Goodall, S. I., LL.M. Asst. Lectr.

*Mathematics*

Segar, H. W., M.A. Camb. Prof.  
 Bullen, K. E., M.A. Asst. Lectr.

*Philosophy*

Anderson, W., M.A. Glas. Prof.  
 Anschutz, R. P., M.A. Lectr.

*Modern Languages*

Walker, M., M.A., B.Com. Prof.  
 Miller, Dora L., M.A., Cert. Assn.  
 Phon. Internat. (Paris)  
 Asst. Lectr.

*Music*

Thomas, W. E., Mus.D. Ox. Prof.

*Physics*

Burbidge, P. W., B.A. Camb.,  
 M.Sc. Prof.  
 Brown, D., D.Sc. Lectr. & Demr.  
 Alexander, N. S., M.Sc.  
 Lectr. & Demr.

## University Extension

Of 16 Tutors assisting the Director  
 appointed by the W.E.A.  
 (Richmond, N. M., B.A.), 4  
 are members of the College  
 staff. Asst. Tutor Organizer:  
 Stephens, F. B., B.Com.

## GENERAL INFORMATION

Established by Act of the N.Z. Legislature in 1882, the College was affiliated to the Univ. of N.Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. It receives an annual grant of £11,500.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof. Board, 1 by local bodies, 4 are elected by the graduates, and 3 by the Auckland members of the General Assembly. Legislation was passed in 1923 permitting of the appointment of a Principal to the College.

COURSES are provided for the degrees of the Univ. in Arts, Science (including B.Sc. in Archit. and in Forestry), Law, Music, Commerce, and Associate of the College in Engineering (3 yrs.).

CLASS FEES. Arts subjects, usually £3 : 3s. to £5 : 5s. Science, £5 : 5s. to £8 : 8s. Law, £2 : 2s. to £3 : 3s. per subject.

PUBLICATION. *Calendar* (Feb.).

## THE YEAR 1928

STUDENTS. Full-time : total, 257, including 16 graduates. Part-time : total, 923, including 70 graduates. 149 were unmatriculated.

DEGREES OBTAINED. D.Phil., 1 ; B.A., 52 ; M.A., 19 ; B.Sc., 10 ; M.Sc., 8 ; LL.B., 12 ; LL.M., 2 ; B.Com., 5 ; Dip. Education, 4 ; Dip. Social Sc., 1 ; Dip. Journalism, 2.

# VICTORIA UNIVERSITY COLLEGE, WELLINGTON

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—P. LEVI, M.A.

REGISTRAR—G. G. S. ROBISON, M.A.

LIBRARIAN—H. G. MILLAR, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>		<i>Law, Roman, etc.</i>	[Prof.
Kirk, H. B., M.A.	Prof.	Adamson, J., M.A., LL.B.	Edin.
Pigott, Ellen, M.A.		Hain, C. H., LL.B.	Asst.
	Lectr. & Demr.	<i>Law, English and N.Z.</i>	[Lectr.
Maskell, F. G., B.Sc.		Cornish, H. H., M.A., LL.B.	
	Lectr. & Demr.	Hemery, L. C., LL.B.	Lectr.
<i>Chemistry</i>		Cousins, A. M., LL.M.	Asst.
Robertson, P. W., M.A. Ox.,		<i>Mathematics</i>	
Ph.D. Leip., M.Sc.	Prof.	Sommerville, D. M. Y., M.A., D.Sc.	
Monro, A. D., M.Sc.		St. And.	Prof.
	Lectr. & Demr.	Miles, F. F., M.A.	Lectr.
<i>Classics</i>		[Prof.	
Brown, J. R., M.A. Ox. & St. And.		<i>Modern Languages</i>	
Alexander, W., M.A., LL.B.	Asst.	Boyd-Wilson, E. J., B.A. Camb.,	
		M.A., B.Sc.	Prof.
<i>Economics</i>		Balham, W. F. C., B.A.	Asst.
Murphy, B. F., M.A., B.Com.,		<i>Philosophy, Mental and Moral</i>	
LL.B. (E. Hist. & Geog.)		Hunter, T. A., M.A., M.Sc.	Prof.
Heine, Hilda G., M.A., Ph.D.		Sutherland, I. L. G., M.A., M.A.,	
	Lectr.	Ph.D. Ox.	Lectr.
<i>Education</i>		<i>Physics</i>	[Prof.
Gould, W. H., M.A.	Prof.	Florance, D. C. H., M.A., M.Sc.	
Lomas, E. K., M.A., M.Sc.	Lectr.	Marwick, Thora, M.Sc.	
		Lectr. & Demr.	
<i>English Language &amp; Lit.</i>		[Prof.	
Mackenzie, H., M.A. St. And.			
Cochran, A. B., M.A.	Lectr.		
<i>Geology</i>		<i>University Extension</i>	
Cotton, C. A., D.Sc.	Prof.	Of the Tutors who conduct one-	
		year classes under joint com-	
<i>History</i>		mittee of W.E.A. and College,	
Wilson, F. P., M.A.	Prof.	3 are members of College staff.	
Maskell, Winifred, M.A.	Asst.	Director, T. A. Hunter, M.A.,	
		M.Sc.	

## GENERAL INFORMATION

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906; additional wings for Library, etc., and for Physics erected 1921-22 at a cost of £50,000. Annual grants about £14,000.

Full DEGREE COURSES are provided in Arts, Science, Law, and Commerce, and the earlier stages in other Faculties.

CLASS FEES range between 3 and 5 guineas per annum for each subject.

RESEARCH SCHOLARSHIPS. J. Joseph, £60 for original work; Mrs. S. A. Rhodes' Fellowship (£400) or Scholarship (£125-£250) for women students of Home Science, tenable for 2 years. Farmers' Union Scholarships (£100) for research bearing on Agriculture.

HOSTEL for 41 women students conducted (on definitely Christian lines) by W.S. Hostel Society.

PUBLICATIONS. *Calendar* (Feb.); Students' Magazine published towards end of each term.

## THE YEAR 1928

STUDENTS. Full-time, 164; part-time, 651; graduates, 77.

DEGREES OBTAINED. B.A., 74; M.A., 29; B.Sc., 26; M.Sc., 12; LL.B., 16; LL.M., 4; B.Com., 17; Diploma in Education, 10; Diploma in Social Science, 3; Diploma in Journalism, 2.

## UNIVERSITIES OF THE UNION OF SOUTH AFRICA

UNIVERSITY OF CAPE TOWN (formerly South African College, Cape Town).

UNIVERSITY OF SOUTH AFRICA, PRETORIA (formerly the Univ. of the Cape of Good Hope), with 6 CONSTITUENT COLLEGES.

UNIVERSITY OF STELLENBOSCH (formerly Victoria College, Stellenbosch).

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG (formerly S. African School of Mines and Technology, and, later, University College, Johannesburg).

**HISTORICAL SUMMARY** (for which the Bureau is indebted to Professor Ritchie of Cape Town). The history of higher education in S. Africa covers but a comparatively short period of time. It may be said to have had its beginnings when, in 1829, the S. African College (now incorporated in the Univ. of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country. This institution was, at its inception and for a long time afterwards, not much more than a higher-class school, but it had within it the possibilities of growth and started with very high aims. It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds. For 20 years it remained the only educational establishment in S. Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopal Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St. Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony. Under the Governorship of Sir George Grey there was founded, in 1855, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony. None of these Colleges was well equipped, and most of the work done by them was school work rather than Univ. work, but they gradually acquired a growing influence and formed centres at which development was only a question of time. A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science. This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but

it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matricn., B.A., and M.A. The competition between the existing Colleges caused by these examns. had undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its examns., but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its examns. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year a School of Mines which had been founded in 1896 at Kimberley was transferred to Johannesburg and afterwards developed into a College for higher education generally, which is now The University of the Witwatersrand. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve

the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary committee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs., one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S. African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ. of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect :

I. The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II. The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is to be upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III. The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch are specified as—Arts, Science, Education, Agric., Law, Theology, Commerce ; of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education ; of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit ; provided that it shall not, without the consent of the Govr.-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. The three University Acts referred to above also made provision for the establishment of a Joint Matriculation Board and a Joint Committee for Professional Examinations, the functions of which are indicated below.

In 1921 Parliament passed a further Act, which has the effect of incorporating, with effect from March 1, 1922, as " The University of the Witwatersrand, Johannesburg," the University College, Johannesburg (formerly the S. African School of Mines and Technology, and one of the constituent colleges of the University of S. Africa). Its Faculties are defined as Arts, Science, Medicine, Law, Engineering, Commerce.

Each of the four Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council ; the Senates of the Univs. of Stellenbosch, the Witwatersrand, and Cape Town consist in each case of the Principal, the Vice-Chancellor, two

additional members of the Council appointed for a prescribed period, and the Professors.

CONFERENCE. The Vice-Chancellors of the Univs. acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn. Board, the Joint Committee for Professional Examns., the administration of the Joint Scholarship Funds of the four Univs., the admission of registered students of any one of the Univs. to any of the others, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to formulate regulations dealing with any other matters of common interest. The address of the Secretary (who is also Registrar, Univ. of Cape Town) is P.O. Box 594, Cape Town.

Representatives of the Univs. and Univ. Colleges in South Africa met for the first time in conference in Cape Town in Dec. 1925 to discuss matters of common interest and to promote co-operation and mutual consultation. Similar meetings have since been held from time to time.

THE JOINT MATRICULATION BOARD consists of representatives of the four Univs., the Provincial and Union Departments of Education and the Secondary Schools (public and private) of the four Provinces. Its function is to control and conduct the Matricn. Examn. of the four Univs., and to deal with all applications for exemption therefrom. There are two alternative sets of regulations—the interim and the new.\* Under the interim rules a candidate must take (1) English or Dutch, (2) Latin or Greek or French or German, (3) Maths., (4) Greek (if not already taken) or Hist. or Geog., (5) Physics or Chem. or Phys. Sci. or Bot. or Zool. or Geol. or Biol. or Hygiene or Domestic Sci. and Hygiene, or Agric. Sci., (6) Engl. or Dutch or French or Ger. or Latin or Greek or Hist. or Portuguese or Hebrew or Native lang. The new grouping of subjects is: (1) English, Dutch; (2) Maths.; (3) Latin, Greek, French, German; (4) Physics and Chem., Physics, Chem., Biol., Bot., Zool., Geol., Hygiene, or Domestic Sci. and Hygiene, Agric. Sci. A.; (5) Hist., Geog., English, Dutch, Hebrew, addl. subject from (3) or (4); (6) Agric. Sci. B., Practical Maths., Mechanics, Bookkeeping and Comm. Arith., Shorthand and Typewriting, Art, Geom. Drawing, Domestic Sc., Music, addl. lang., addl. subject from (5). Under the new regns., if 6 subjects are taken, 1 must be selected from each group; if only 5 subjects are taken, 3 must be on the higher grade, 1 of which must be the subject from group (1), 1 a subject from group (2) or (3), and 1 from any other except (6). The 5 subjects must be selected from (1) to (5) (inclusive) in such a way that not more than one of these groups is omitted. School-leaving certificates are also issued by the Board under both sets of regns., the syllabuses and examn. papers being the same as for the matricn. examn. with a wider choice of subjects.

*Examinations exempting* (i.) wholly, or (ii.) subject for subject, from the matriculation examination of the South African Univs.: (i.) Final degree examns. of univs. recognized by the Joint Board, St. Andrews' L.L.A., Teachers' 1st Class Certificate (S. Africa), Technische Hoogeschool of

\* Revision in progress.

Delft Diploma examn., including Latin, French, or German, and, subject to certain conditions, Transvaal Secondary School Certificate (in or after 1921), Cape Province Senior Certificate (in or after 1923).

(ii.) Provided that candidates have passed, with at least 4 subjects chosen in accordance with the regulations for a matricn. certificate of the Board, an entrance examn. of any univ. recognized by the Board, senior certificate of the Univ. of the Cape of Good Hope or School-leaving certificate of the Board, Second Class Teachers' certificate (Transvaal and Natal Province), Eindexamen in Holland of Gymnasium or Hogere Burgerschool, Diploma in Switzerland of "École Supérieure de Jeunes Filles," Abiturienten-examen or Maturitäts-Prüfung in Germany or Switzerland at a gymnasium, Hoofdakte-examen in Holland, any British Higher School Certificate, or School Certificate *with credit*. Dynamics of the Scottish Universities preliminary examn. and Mechanics of the Senior or School-leaving Certificate (S. Africa) are accepted in lieu of a matricn. science subject.

Candidates over the age of 25 who desire to proceed to a degree course or to some professional qualification and are not eligible for exemption under the ordinary regulations may, under certain conditions, be specially exempted from matricn. on the recommendation of the Univ. or other authority concerned.

The address of the Secretary (who is also Registrar of the Univ. of S.A.) is P.O. Box 392, Pretoria.

The JOINT COMMITTEE FOR PROFESSIONAL EXAMNS. (Address—P.O. Box 392, Pretoria), consisting of 2 representatives of each of the 4 Univs. (one for Law and one for Survey) and 5 persons appointed by the Govr.-General (of whom at least 2 must be for Law and 2 for Survey), controls and conducts: (1) Law Certificate Examn., (2) Civil Service (Lower and Higher) Law Examns., (3) Examns. in Theory of Land Surveying, and (4) Final Examn. for Patent Agents. It also conducts in certain cases on behalf of the Supreme Court the Advocates' Admission Examn. in Roman-Dutch Law and the Statute Law of the Union.

A NATIONAL UNION OF SOUTH AFRICAN STUDENTS was formed in 1924. President, L. Marquard, Grey College School, Bloemfontein; Hon. Sec., M. D. Nell, Transvaal University College, Pretoria; Hon. Sec., Travel Dept., A. Lewin, 1 Burnside Road, Cape Town.

TERMS. The academic year is usually divided into 4 terms, beginning in Feb. or March and ending Nov. or Dec. At Stellenbosch there are two Semesters, beginning end of Feb. and end of July.

# UNIVERSITY OF CAPE TOWN

WITH WHICH IS INCORPORATED THE  
SOUTH AFRICAN COLLEGE

VISITOR—THE GOVERNOR-GENERAL.

CHANCELLOR—THE PRINCE OF WALES.

VICE-CHANCELLOR—Principal Sir CARRUTHERS BEATTIE, D.Sc., LL.D.,  
F.R.S.E.

PRESIDENT OF CONVOCATION—Advocate R. W. CLOSE, K.C., B.A.,  
LL.B., M.L.A.

CHAIRMAN OF COUNCIL—C. E. LEWIS, M.A.

REGISTRAR—W. G. R. MURRAY, M.A.

## PROFESSORS, LECTURERS, ETC., 1929

*Accounting and Business Method*  
Galbraith, H. G., B.A. Camb.,  
C.A. Edin. Prof.  
Small, L. Lectr.

*African Life and Languages*  
Barnard, T. T., B.A. Ox., Ph.D.  
Camb.  
Prof. of *Social Anthropology*  
Beach, D. M., B.A. Harv., Ph.D.  
Lond. Prof. of *Phonetics*.  
Goodwin, A. J. H., B.A. Camb.  
Sr. Lectr. (Soc. Anthro-  
pology).  
Bleek, Miss D. F. Hon. Reader.  
Bennie, W. G.  
Reader in Bantu Langs.

*Anatomy*  
Drennan, M. R., M.A., M.B., Ch.B.  
Edin. Prof.  
Wolff, R., B.Sc., M.R.C.S., L.R.C.P.,  
L.D.S. Asst.  
Gordon, W. L., O.B.E., M.D.,  
F.R.C.S. Edin. Lectr.

*Bacteriology*  
Campbell, W., M.B., B.Sc. (P.H.)  
Edin. Prof.

Ferguson, J. H., B.A. Ox., M.D.  
Harvard Asst.  
Greenfield, Miss E. C., M.B., Ch.B.  
Asst.

*Botany*  
Compton, R. H., M.A. Camb.  
Prof. and Dir. of National  
Bot. Gardens.  
Adamson, R. S., M.A., B.Sc. Edin.,  
M.A. Camb. Bolus Prof.  
Stephens, Miss E. L., B.A., F.L.S.  
Sr. Lectr.  
Levy, Mrs. J. E. P., B.A. Lectr.  
Bolus, Mrs. F., B.A.  
Curator of Bolus Herbarium.  
McLeod, Miss E. C., B.A. Demr.

*Chemistry*  
Tietz, H., M.A., Ph.D. Berl.  
(Organic) Prof.  
Thomas, J. Smeath, D.Sc. Liv.  
Prof. (Inorganic C.).  
Newbery, E., D.Sc. Manc., F.I.C.  
(Physical) Prof.  
Pugh, W., B.Sc. Lond., Ph.D.  
Lectr.  
Vogel, J. C., D.Sc. South Africa  
Lectr.

Denis-Nathan, L., M.Sc. Demr.  
Southwood, W. W., M.Sc. Demr.

*Classics*

Ritchie, W., M.A. Aberd., M.A.  
Ox., LL.D., D.Litt.  
Prof. (Latin and Class.  
Philol.).  
le Roux, T., M.A., Litt.D. Amst.  
Prof. (Gk.).  
Rollo, W., M.A., D.Litt. Glas.,  
Litt.D. Leiden Sr. Lectr.  
Farrington, B., M.A., N.U.I. ,, ,

*Commerce*

Plant, Arnold, B.Sc., B.Com.  
Lond. Prof.  
Hutt, W. H., B.Com. Lond.  
Senr. Lectr.

*Economics*

Leslie, R., M.A. Edin. Prof.  
Goodfellow, D.M., B.Sc. Lond.  
Sr. Lectr.  
Murray, I. M., M.A. Junr. Lectr.

*Education*

..... Prof.  
Scrimgeour, A. C. S., M.A. Edin.  
(Method) Prof.

*Sr. Lectr. :*

Jamieson, J. N., M.A. St. And.

*Lectrs. :*

Burger, J. F., M.A., Ph.D.  
Malan, Miss A. M., M.A.  
Peffer, Miss R.  
3 Assts.

*Electrotechnics*

[Prof.  
Bohle, H., M.V.D.E., M.I.E.E.  
Campbell, D., B.Sc. Sr. Lectr.  
Rode, H. Demr.

*Engineering, Civil*

Snapé, A. E., M.Sc. Manc.,  
F.R.San.I. Prof.  
Stewart, G. S. Sr. Lectr.  
Gilmore, J. A., B.Sc., M.A. Demr.

*Engineering, Mechanical*

McMillan, D., A.R.T.C. Prof.  
Weaver, W. G. Sr. Lectr.

Brooks, J. J., A.R.C.S. Lectr.  
Tankard, D. S. Asst.

*English*

Doughty, O., M.A. Durh., B.Litt.  
Ox. Prof. (E. Lit.).  
Mackie, W. S., M.A. Aberd.,  
B.A. Ox. Prof. (E. Lang.).  
Sewell, W. A., B.A. Leeds, B.A.  
Ox. Sr. Lectr.  
Davey, Miss L., M.A. Junr. Lectr.

*Ethics and Politics*

Malan, G. H. T., M.A., D.Phil.  
Glas. Prof.

*Fine Art*

Wheatley, J. Prof.  
12 Assts.

*French*

Nauta, R. D., O.I.P. Prof.  
Clarke, Mrs. V., M.A. Asst.

*Geology, v. Mineralogy*

*German*

Prinz, J., Ph.D. Munich Prof.  
Bodmer, F., Ph.D. Zürich Lectr.

*Hebrew*

Bender, A. P., M.A. Camb. Prof.

*History*

Walker, E. A., M.A. Ox. Prof.  
Mandelbrote, H., M.A., LL.B.  
Cape, B.A. Ox. Sr. Lectr.  
Marais, J. S., M.A., D.Phil. Ox.  
Sr. Lectr.

*Law*

[Prof.  
Wille, G., B.A., LL.D. Camb.  
Wylie, J. K., M.A., LL.B., D.Litt.  
Edin., LL.B. Lond., LL.M.  
S. Afr. Prof. (Rom. L.).  
Emmett, E., M.A., LL.B. Manc.

Prof.  
Clouts, P. M., LL.B. Camb., B.A.  
Lectr.

De Villiers, J. E., B.A., B.C.L.  
Ox., B.A. Cape, LL.B. S.Afr.  
Lectr.

M'Intosh, J. C., B.A. Cape, B.A.,  
LL.B. Camb. Lectr.

Thompson, C. N., M.A., LL.B.  
Camb. Lectr.

*Mathematics, Pure*

- Crawford, L., M.A. Camb., D.Sc. Glas. Prof.  
 Skewes, S., B.Sc., M.A., B.A. Camb. Sr. Lectr.  
 Pagan, Miss G. M., M.A. S. Afr., Dip. Actuarial Maths. Edin. Lectr.

*Mathematics, Applied*

- Brown, A., M.A. Camb., M.A., B.Sc. Edin. Prof.  
 v. d. Lingen, J. S., B.A., Ph.D. J. Hop. Sr. Lectr.  
 Rosenberg, R. L., B.A. Demr.

*Mineralogy and Geology*

- Young, A., M.A., D.Sc. Edin. Prof.  
 Walker, A. R. E., B.Sc. Lond., A.R.C.S. Lond. Sr. Lectr.

*Music*

- [Prof.]  
 Bell, W. H., F.R.A.M., F.R.C.M. Sr. Lectrs.:

- Bell, Mrs. W. H., L.R.A.M.; Bonnar, Miss E., L.R.A.M., A.R.C.M.; Fincken, Miss E., A.R.A.M.; Haasdyk, P. W.; Lardner, Mrs. D. F., L.R.A.M., A.R.C.M.; Marx, E.; Rainier, Miss E. F. D., L.R.A.M.; Taylor, C.

*Lectrs.:*

- Greathead, Miss L. B., A.R.A.M.; Isaacson, Miss L.; Leffler, Miss W., L.R.A.M.; Tobias, I., A.R.A.M.

*19 Assts.**Nederlands en Afrikaans*

- Bosman, D. B., M.A. Cape, Ph.D. Groningen Prof. (Lang.).  
 ..... Prof. (Lit.),  
 van der Merwe, I. W., M.A. Lectr.  
 Bosman, F. C. L., M.A., Litt.D. Amst. Lectr.

*Philosophy, v. also Ethics* [Prof.]

- Reyburn, H., M.A., D.Phil. Glas.  
 Eales, W. C., B.A. Cape Sr. Lectr.  
 Taylor, J. G., M.A. Aberd. Sr. Lectr.  
 Thompson, Miss E. M., B.A. S. Afr. Lectr.

*Physics*

- Ogg, A., M.A., B.Sc. Aberd., Ph.D. Gött. Prof.  
 Schonland, B. F. J., O.B.E., B.A. Camb. Sr. Lectr.  
 Grindley, E. N., M.Sc. Bristol Lectr.  
 Alper, Miss T., B.A. Demr.  
 Lourens, J. van B., B.Sc. Demr.

*Physiology*

- Jolly, W. A., M.B., Ch.B., D.Sc., LL.D. Edin. Prof.  
 Bosman, L. P., B.A., B.Sc., Ph.D. Edin. Sr. Lectr.  
 Zwarenstein, H. J., M.A., B.Sc., Ph.D. Sr. Lectr.

*Politics, v. Ethics**Zoology*

- Hogben, L., M.A. Camb., D.Sc. Lond. Prof.  
 Zoond, A., M.Sc. McGill Lectr.  
 Hogben, Mrs. D. L., B.A. Camb. Demr.  
 Gordon, C., M.Sc. Demr.  
 Lawrence, R. F., B.A., Ph.D. Demr.

*Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)**Anæsthetics*

- Forbes, A. Gordon, M.B., Ch.B. Edin. Lectr.  
 Muir, R. M., M.B., Ch.B. Edin. Lectr.  
 Berelowitz, H., M.B., Ch.B. Clin. Instr.

*Dermatology*

- Smith, Hugh, M.D. Lond. Lectr.

*Diseases of Children*

- Leipoldt, C. L., L.R.C.P., F.R.C.S. Lectr.

*Ear, Nose, and Throat*

- Luckhoff, J., M.D. Edin. Lectr.

*Infectious Diseases*

- [Lectr.]  
 Wicht, J. F., M.D. Dub., D.P.H.

*Med. Jurisprudence*

- Fehrsen, F. O., L.R.C.P., M.R.C.S., D.P.H. Lectr.  
 Rhodes, W. F. Lectr.

<i>Medicine</i>		Fuller, T. A., M.B., Ch.B. Edin.	
Falconer, A. W., C.B.E., M.D.		Asst.	
Aberd., M.R.C.P.	Prof.	Linder, G. C., M.D., M.R.C.P. Asst.	
Forman, F., M.B., Ch.B. Edin.		Vadas, Miss D. G., M.B., Ch.B.	
	Asst.	Asst.	
<i>Medicine, Clinical</i>		<i>Pharmacology</i>	[Prof.]
Marais, D. P., M.D., M.R.C.P.		Gunn, J. W. C., M.B., Ch.B. Edin.	
Edin.	Lectr.	Epstein, D., M.B., Ch.B., Ph.D.	
Silberbauer, S. F., M.D., F.R.C.P.		Asst.	
Edin.	Lectr.	<i>Public Health</i>	
<i>Medicine, Psychological</i>		Higgins, T. S., M.D., B.S., B.Sc.	
Swift, E. W. D., M.B. Lond.		Lond., D.P.H. Camb.	Lectr.
	Lectr.	<i>Radiology</i>	
Kooy, F. H., M.R.C.S., L.R.C.P.		Van Rooijen, J., M.D. Amst.,	
	Lectr.	M.R.C.S., L.R.C.P., D.M.R.E.	
<i>Obstetrics and Gynaecology</i>		Lectr.	
Crichton, E. C., B.A., M.B.,		<i>Surgery</i>	
B.A.O., B.Ch. Dub.	Prof.	Saint, C. F. M., C.B.E., M.D., M.S.	
		Durh., F.R.C.S.	Prof.
<i>Obstetrics, Clinical</i>		<i>Surgery, Clinical</i>	
Simpson Wells, A., M.A., M.D.		Elliott C. C., M.D., M.R.C.S.	
Glas., F.R.C.S.E.	Lectr.	Lectr.	
Charnock, F. S., M.B., Ch.B.		Fuller, E. B., M.B., F.R.C.S.E.	
Manc.	Tutor.	Lectr.	
Sharp, C. W. C., L.R.C.P.,		McLachlan, A. R., F.R.C.S.,	
L.R.C.S., F.R.C.S., L.F.P.S.		L.R.C.P.	Lectr.
	Tutor.	Sandes, T. L., O.B.E., M.A., M.D.	
<i>Gynaecology, Clinical</i>		Dub., F.R.C.S. Eng., F.R.C.S.	
Wessels, D. H.	Lectr.	Irel.	Clin. Tutor.
<i>Ophthalmology</i>		<i>Vaccination</i>	
Wood, D. J., M.B., C.M. Edin.		Wicht, J. D., M.D. Dub.	Lectr.
	Lectr.	<i>Venereal Diseases</i>	
<i>Pathology</i>		O'Malley, C. K., M.C., M.B.,	
Ryrie, B. J., M.B., Ch.B. Edin.		B.Ch., B.A.O., M.S. Irel.,	
	Prof.	D.M.R.E. Camb.	Lectr.

## GENERAL INFORMATION

The University of Cape Town, with which is incorporated the South African College, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Mr. (now Sir) Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit. The S. African College, out of which the University grew, opened in 1829 as a private venture, became a public institution in 1837. In 1895 classes were opened in mining engineering. In 1900 the matriculation classes were transferred to the College school and the College confined itself to University teaching. In 1902 £40,000 was collected from past students and others, and courses for medical students and civil, mechanical, and electrical engineers were begun. Provision was made in 1910 for post-graduate courses for the training of teachers, in 1917 for the third year of medical study, and in 1918 for a complete medical course. In 1921 Schools

of Commerce and of Music were established. Early in 1921 a special appeal for funds was concluded; the amount obtained was about £280,000, including a sum of £50,000 for the Jamieson Memorial Hall.

A site for the University was provided by Government at Groote Schuur, Rondebosch.

**LIBRARY**, 30,000 vols. Access to S.A. Public Library, 100,000 vols., specially well equipped in Bot. and Zool. Depts. Also Bolus Bot. Library and (for students of Teaching) the Library of the Educn. Dept. The Bolus **HERBARIUM** includes Guthrie Collection of Cape Flora. The S.A. **MUSEUM** of Nat. Science adjoins the Univ. grounds. **MARINE BIOL. LABORATORY** at St. James'.

**FACULTIES.** Arts, Commerce, Science, Engineering, Law, Medicine, Education, Music, and Fine Arts.

**DEGREE COURSES.** B.A., 3 yrs.; B.A. (in Architecture), 5 yrs.; B.A. (in Fine Art), 4 yrs.; B.Sc. (in Pure Sc.), 3 yrs.; B.Sc. (in Applied Sc.), 4 yrs.; B.Sc. (in Surveying), 4 yrs.; B.Com., 3 yrs.; LL.B., 5 yrs.; B.Mus., 4 yrs.; M.B., Ch.B., 6 yrs. Higher degrees: M.A., 1 yr.; M.Sc., 1 yr.; M.Com., 1 yr.; B.Ed., 2 yrs. after B.A. The M.A., M.Sc., and M.Com. courses are open to graduates of any approved Univ.; so also are courses for the Ph.D. (open to bachelors of at least 3 yrs.' standing), and D.Litt., D.Sc. (open to bachelors of at least 4 yrs.' standing), for which attendance for 2 yrs. may be required. The M.Com. is open to B.Com. of 3 yrs.' standing. The LL.M. is open to LL.B. after 2 yrs.' attendance; the LL.D. is open to LL.B. or LL.M.

**OTHER COURSES.** For Teachers' Certificate.—Secondary Higher, Secondary Primary Higher, Primary, Univ. Diploma in Commerce, in Architecture, in Music, in Fine Art, in Speech-training (Dramatic Art and Speech-training); Univ. post-graduate diploma in Public Health; Law Certif., Civil Service Law examn., Dentistry (preliminary subjects), and for students of Agric. and Theol. proposing to graduate in those subjects elsewhere.

**RECOGNITION OF AND BY OTHER INSTITUTIONS.** Attendance in Stellenbosch and the constituent Colls. of the Univ. of S. Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool. is accepted by Aberd., Bris., Durh., Edin., Glas., Liv., Manc., Dub., R.C.P. Lond., R.C.S. Eng.; so also are examns. in the Faculty of Arts on the special courses in these subjects (except by Dub.). Attendance on courses in Anat. and Physiol. is accepted by Aberd., Durh., Edin., and Glas., R.C.P. Lond., and R.C.S. Eng.: examns. in the Faculty of Arts in these subjects are accepted by Aberd. The Dentistry course is recognized by the R.C.S. Eng., R.C.P.S. Edin., and Edin. Dental School; the Hygiene course by the Conjoint Boards of Eng., Ire., Edin., and Glas.

**FEES.** For tuition, including registration, excluding laboratory fees, annually: Arts or Sc., from £24 to £30; Engin., £36; Med., £38 (average); Law (LL.B.), £24 to £30, Law Certif., £11; Teaching, £22 to £27; Surv., £34; Commerce (B.Com.), £24; Architecture, £32; Fine Art, £32; Music, £25 to £40. Examn. and graduation fees, minimum: B.Ed., £10; B.A. or B.Sc. or B.Com., £11; B.Sc. Engin., £20; B.Sc. Surveying, £20; B.A. Architecture, £21; B.A. Fine Art, £11; Mus.Bac., £12; LL.B., £30; M.B., Ch.B., £30; Master's degree, £6; Doctor's, £13.

**SCHOLARSHIPS OPEN TO GRADUATES OF THE UNIV.** Jamieson, Croll, Porter, George Grey, Donald Currie, Willem Hiddingh, and several others, of £150 and £200 p.a., tenable generally for 3 yrs., and awarded from time to time after the M.A. or M.Sc. examns.; £150 p.a. for 2 yrs., awarded annually after the

B.Sc. (Engin.) examn.; £150 for 1 yr., awarded annually after the final professional examn. for M.B., Ch.B. H. B. Webb Gift Research Scholp. of £200 p.a., tenable for three years, is available for award every three years to graduates of the University.

Travelling concessions to students are granted by the Union-Castle S.S. Coy. and (except to law students and married persons) by the Union Railways.

RESIDENCE. Hostels for 300 men and 200 women. Board and residence, £60 to £65 p.a., and laundry fee, £5 p.a.

PUBLICATIONS. *Calendar* (Dec.); Students' Repve. Council's *University Quarterly*; *Annals of the Bolus Herbarium*; *The History of South African College, 1829-1918*, by Prof. W. Ritchie (2 vols.; Maskew Miller, Cape Town).

## THE YEAR 1928

BENEFACTIONS. A further instalment of £400 was received under the Hofmeyr bequest, making a total of £17,768 : 7 : 6 for the development of the dept. of Nederlands en Afrikaans.

NEW BUILDINGS. The transfer of the depts. of anatomy and physiology to their new building completed the removal of the medical section to the Wernher-Beit Medical Laboratories at Groote Schuur. The new hostels for men and women were occupied. New buildings nearing completion and expected to be ready for occupation in 1929 are (a) mathematics and physics; (b) arts and education; (c) botany and zoology; (d) geology, and (e) psychology.

NEW DEPTS. AND POSTS. Faculty of Fine Art; professorship in Phonetics (in place of senior lectureship); senior lectureships in Pathological Chemistry and Physiological Chemistry; lectureships in Accounting, Clinical Gynæcology, Medical Jurisprudence; and readership in Bantu languages.

NEW COURSES. B.Sc. in Surveying, 4 yrs.; B.A. in Architecture, 5 yrs.; B.A. in Fine Art, 4 yrs.; first qualifying B.A. course in Ethnology and Archaeology, and second qualifying B.A. course in Fine Art. Teachers' certificates: secondary, 4 yrs., including B.A. (in place of 3-yr. course for lower secondary); higher primary, 3 yrs., and primary, 2 yrs. Diploma in Speech-training and Dramatic Art, 3 yrs. (in place of 2-yr. course).

VISITING PROFESSORS. Professor M. C. Schuyten, of Antwerp, and Dr. Carl Meinhof, of Berlin, who lectured to certain groups of students, and Dr. James E. Russell, of Teachers College, Columbia University, New York, who visited South Africa as the accredited representative of the Division of Interchange and Education of the Carnegie Endowment for International Peace.

RESIGNATIONS. C. von Bonde, senior lecturer in Zoology (appointed Director of Fisheries Survey). G. A. W. von Düring, junior asst. in Bacteriology.

DEATHS. Dr. J. M. Russell, chairman of the University Council; he was associated with the South African College and with the Univ. for fifty-four years. Prof. John Clark, professor of English since 1903.

STUDENTS. Full-time, 1374; Part-time, 612; total, 1986.

DEGREES AWARDED. Ph.D., 2; M.A., 18; M.Sc., 2; B.A., 85; B.Sc. (Pure Science), 10; B.Sc.Eng., 9; LL.B., 9; M.B., Ch.B., 19; B.Ed., 10; B.Com., 8.

# UNIVERSITY OF SOUTH AFRICA

(By Act 12 of 1916 of the Legislature of the Union of South Africa the UNIVERSITY OF THE CAPE OF GOOD HOPE, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the UNIVERSITY OF SOUTH AFRICA with administrative seat at Pretoria.

CHANCELLOR—Field-Marshal H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.T., K.P.

VICE-CHANCELLOR AND CHAIRMAN OF COUNCIL—H. BRYAN, M.A.

CHAIRMAN OF THE SENATE—Professor A. E. DU TOIT, M.A.

PRESIDENT OF CONVOCATION—Professor T. M. FORSYTH, M.A., D.Phil.

REGISTRAR—C. C. GRANT, M.B.E., M.A. (P.O. Box 392, Pretoria).

## CONSTITUENT COLLEGES

GREY UNIVERSITY COLLEGE, Bloemfontein (1855).

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874).

NATAL UNIVERSITY COLLEGE, Pietermaritzburg (1909).

POTCHEFSTROOM UNIVERSITY COLLEGE, Potchefstroom (1905).

RHODES UNIVERSITY COLLEGE, Grahamstown (1855).

TRANSVAAL UNIVERSITY COLLEGE, Pretoria (1903).

## GENERAL INFORMATION

FACULTIES: Arts (including Fine Arts, Divinity, and Music), Education, Science, Engineering, Agriculture, Law, Commerce and Public Administration, Veterinary Science.

DEGREES. B.A., M.A., M.Ed., D.Litt., D.Phil.; B.D., D.D.; B.Mus., D.Mus.; B.Com., M.Com.; B.Econ., M.Econ.; B.Sc., M.Sc., D.Sc., B., M., and D.Sc. in Engin.; B., M., and D.Sc. in Agric.; LL.B., LL.M., LL.D.; B.V.Sc., D.V.Sc.

Courses for B.A., B.Com., B.Econ., B.Sc.—3 yrs.; B.Mus., B.A. (Fine Arts), B.Sc. Eng., B.Sc. Agr.—4 yrs.; B.V.Sc.—5 yrs.; LL.B.—3 yrs., after graduating in some faculty other than Law. *Internal* candidates for these degrees must have attended as registered matriculated students at a Constituent Coll. for the prescribed periods, provided that the Senate will accept as qualifying attendance on recognized courses at any of the other South African Univs. and may accept attendance and examns. at other recognized Univs., or at other institutions specially recognized by the Senate for the purpose. But the minimum attendance at approved courses at the Univ. of S.A. for the Bachelor's degree in Applied Science is the final 2 yrs., and for other Bachelor's degrees at least one-half of the courses prescribed. *External* students must have their curricula approved by the Senate and must pass the examns. prescribed for them from year to year by the Senate in order to qualify for degrees.

The M.A., M.Sc., M.Com., M.Econ., and M.Sc. (Agric.) courses each cover 1 yr. after the Bachelor's degree; the M.Ed. 2 yrs. The M.Sc. (Engin.) may be conferred on a B.Sc. (Engin.) who has had, since graduating, 2 yrs.' practice of his profession. A thesis is required for the LL.M., M.Sc. (Agric.) or M.Sc. (Engin.). Doctorates are granted for approved theses to bachelors of at least 5 yrs.' or masters of at least 4 yrs.' standing (reducible to 4 and 3 respectively in consideration of attendance for one year as a research student at an approved institution). The Master's and Doctor's degree may also be conferred *honoris causa*.

**Research (Bachelor) Degrees.** On proof of special qualifications in any direction a person may be exempted from the matricn. examn. and admitted to courses of special study and research with a view to graduation, the conditions being determined by Boards of Faculty, subject to approval of Senate.

**Diplomas** in Domestic Science and Education (Lower) open to matriculated students—3 yrs.' course; in Education (Higher)—1 yr. course after graduation; in Bantu Studies (Lower and Higher); to Music Teachers.

**SCHOLARSHIPS:** 2 or 3 of £150 to £200 p.a. for 3 yrs. awarded annually on results of M.A. and M.Sc. examns.; Webb Research Scholarship, £200, open to holders of M.A. or M.Sc. of not more than 2 yrs.' standing, undertaking approved course of research work, renewable from year to year up to 3 yrs.; 1 Music Scholarship of £200 p.a. for 3 yrs., tenable alternately at Royal Coll. of Music, London, and Royal Acad. of Music, London.

**UNIV. FELLOWSHIP:** £250 per annum for two years to enable any Professor or Lecturer of the Univ. to carry out a special branch of research work.

**SCHOOL AND MUSIC EXAMNS.** The Univ. controls and conducts a *Junior Certificate* examn. of standard 2 yrs. below matricn., and examns. for Music Certifs. and Licentiate Diplomas (for Teachers of Music and Solo Performers). The examiners in the practical music examns. are nominated by the Assoc. Board of R.A.M. and R.C.M., London.

**PUBLICATION.** *Calendar* (March), 2s. 6d.

## THE YEAR 1928

**STUDENTS.** Internal, 1783; External, 1025.

**DEGREES.** D.Litt., 1; D.Sc., 1; D.Vet.Sc., 3; B.A., 219; B.A. (Fine Arts), 3; M.A., 22; B.Sc., 72; M.Sc., 8; LL.B., 22; B.Com., 26; B.Sc.Agric., 14; B.Sc.Engin., 5; B.Vet.Sc., 5; M.Ed., 4; B.Econ., 17; M.Econ., 1; B.D., 7. **Diplomas**—Education (Higher), 133; Educn. (Lower), 4; Bantu Studies, 10. Diploma in Economics, 1.

# GREY UNIVERSITY COLLEGE, BLOEMFONTEIN, O.F.S.

CHAIRMAN OF COUNCIL—J. S. M. RABIE, B.A. Cape.

VICE-CHAIRMAN—J. H. B. REITZ.

RECTOR—Prof. D. F. MALHERBE, B.A., Dr.Phil.

REGISTRAR—R. B. SAAVMAN.

## PROFESSORS, LECTURERS, ETC.

<i>Afrikaans and Dutch</i>		Fourie, I. S., B.A.	Lectr.
Malherbe, D. F., B.A. Cape,			
Dr.Phil. Freiburg i. Br. Prof.	<i>Law</i>		[Lectr.
van der Merwe Scholtz, H., M.A.,	Brink, C. P., B.A., LL.B. Cape		
D.Litt. Utrecht	Horwitz, Adv. I. L., B.A., LL.B.		
			Lectr.
	Edeling, H. J., B.Sc., LL.B. Cape		Lectr.
<i>Botany</i>			
Potts, G., B.Sc. Durh., Ph.D.			
Halle	<i>Mathematics (Pure and Applied)</i>		
Gemmell, Miss D. M., B.Sc. Demr.	Arndt, W. F. C., B.A. Cape,		
	Dr.Phil. Gött.		Prof.
<i>Chemistry</i>	Arndt, J. G. A., M.Sc., Dr.Phil.		Lectr.
Rindl, M., D.Ing. Charl.	Gött.		Lectr.
Zweerts, F., Ingr. Delft	Bloemsma, J. H., B.Sc.		Asst.
Jacobs, Z. C., B.A.			
	<i>Pedagogy</i>		
<i>Classics</i>	Eybers, E., M.A. Edin., Ph.D.		
Ross, J. A., M.A. Cape (Greek)	New York		Prof.
Steven, S. J. H., M.A.	.....		Lectr.
<i>English</i>	<i>Philosophy</i>		
Hopwood, D. P., M.A.	Forsyth, T. M., M.A., D.Phil.		
Newman, Mrs. G., M.A.	Edin.		Prof.
	Schmidt, C. H., M.A., B.L.H.		
<i>Geology</i>			Lectr. (Psychol.).
Von Bonde, W., M.A., D.Sc. Cape			
Town	<i>Physics</i>		
Maartens, Miss M. J., B.Sc. Demr.	Logeman, W. H., M.A. Cape		Prof.
	Klatzow, L., M.Sc.		Demr.
<i>German and French</i>			
Dekker, J. J., M.A., D.Phil.	<i>Zoology</i>		
Vienna	Dreyer, T. F., B.A. Cape, Ph.D.		
	Halle		Prof.
<i>History, Economics and Politics</i>	van der Linde, W., B.Sc.		Demr.
Barnard, S. P., Litt. Docts. Leyd.	Lyle, Miss A., B.Sc.		Demr.

## GENERAL INFORMATION

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ. College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides *courses* for degrees in Arts, Science, and Law, and for the Teachers' Diplomas, and prelim training for Med., Engin., Agric., and Comm.

HOSTELS for men and women within the Coll. grounds. Board and Residence, £15 per quarter. TUITION FEES: £5 per quarter (Law, £2: 10s.).

SCHOLARSHIPS, open to residents of O.F.S. for study abroad, 4 or 5 of £150 p.a. for 3 yrs.; of these 3 are for Agric. study.

UNIV. EXTENSION lectures, chiefly by members of the staff, in Bloemfontein and other centres. PUBLICATION: *Calendar* (Dec.).

## THE YEAR 1929

RESIGNATION. Rt. Rev. J. D. Kestell (Rector).

STUDENTS. Total (including extra-mural) 306, including 87 graduates.

HUGUENOT UNIVERSITY COLLEGE,  
WELLINGTON, C.P.

PRESIDENT—BERTHA STONEMAN, D.Sc. Cornell.

## PROFESSORS AND LECTURERS

<i>Botany</i>		<i>French and German</i>	[Lectr.]
Grant, Adele L., M.A., Ph.D.		Hansen, Christine, Ph.D.	Heid.
Wash.	Lectr.		
<i>Chemistry</i>	[Prof.]	<i>History</i>	[Prof.]
Kilroe, Miss F. C., B.Sc. Lond.		Stafford, Susan, M.A., N.U.I.	
<i>Classics</i>	[Prof. (Latin)]	<i>Horticulture</i>	
Sargent, Helen A., M.A. Oberl.		Hebditch, Miss G. L., Dipl. in H.	
Fremantle, Miss I. M. E., M.A.		(Reading)	Lectr.
Cape T.	Lectr.	<i>Mathematics</i>	[Prof.]
<i>Domestic Science</i>	[Lectr.]	Johnson, Alta M., Ph.B. Neb.	
Gregory, Elsie M., Dipl. Leeds.		<i>Philosophy</i>	[Prof.]
<i>Dutch</i>	[Prof.]	Stoneman, Bertha, D.Sc. Corn.	
Booyesen, Miss H. J., M.A., B.Educ.		Robson, Grace M., B.A. Cape	
<i>Education</i>	[Prof.]		Lectr.
de Wet, Miss F. C., M.A. Col., B.A.		<i>Physics</i>	[Lectr.]
<i>English</i>		Semmens, E. S., B.Sc., Ph.D.	
Snell, Florence M., M.A. Oberl.,		<i>Zoology and Physiology</i>	
Ph.D. Yale	Prof.	Theiler, Miss G., B.A., D. ès Sc.	
Conradie, E. J., M.A. S.A.	Lectr.	Neuchâtel	Lectr.

## GENERAL INFORMATION

Originally a department of the Huguenot Seminary founded by Dr. Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ. in 1918.

LIBRARY, over 7000 vols. HERBARIUM, over 2000 specimens. LABORATORIES, Bot., Chem., Physics, Zool., Dom. Sc., Physiol., Psych.

COURSES for B.A., B.Sc., M.A., M.Sc., and Diplomas in Education. Special courses in Horticulture and in Domestic Science.

EXPENSES. Class Fees, £20 per annum. Board at the College Hostel, £44 p.a. PUBLICATION: *Calendar* (Dec.).

## THE YEAR 1928

BENEFACTION. £392.

STUDENTS. Full-time: total, 88, including 14 graduates.

DEGREES OBTAINED. B.A., 15; M.A., 1; B.Sc., 5.

## NATAL UNIVERSITY COLLEGE, PIETERMARITZBURG, NATAL

CHAIRMAN OF COUNCIL—The Hon. Sir JOHN C. DOVE WILSON.

CHAIRMAN OF SENATE—Prof. J. W. BEWS, M.A., D.Sc. Edin.

REGISTRAR—E. W. BARNES, M.A. Lond. (P.O. Box 375, Maritzburg).

## PROFESSORS AND LECTURERS

<i>Art</i>	[Prof. (Fine Arts).]	<i>Modern Languages</i>
Oxley, O. P. J., A.R.C.A. Lond.		Besselaar, G., M.A. Cape, D.Litt. Ghent Prof.
<i>Auditing</i>		<i>Education</i>
Richards, C. S., M.Com. Lectr.		Ferguson, J. G. W., M.A. Ox. and St. And. Prof.
<i>Botany</i>	[Prof.]	Reid, A., M.A., B.Sc. Aberd. Assoc. Prof.
Bews, J. W., M.A., D.Sc. Edin.		<i>Engineering</i> [Prof. of Mech. E.]
Bayer, A. W., M.Sc. Lectr.		Neal, J. H., A.R.C.Sc. Lond.
<i>Business Management and Accounting</i>		Clark, H., B.Sc. Eng. Lond., D.I.C., A.C.G.I. Prof. of El. E.
Oldham, O., A.C.I.S. Prof.		<i>English and Philosophy</i>
<i>Chemistry</i>		Waterhouse, O., M.A. Manc. and Leeds Prof.
Denison, R. B., D.Sc. Leeds, M.A. Cape, Ph.D. Bres. Prof.		Sweeney, G. W., B.A., LL.B. Cape Lectr.
Mudie, A. D., M.A., B.Sc. St. And. Lectr.		<i>French</i>
<i>Classics</i>		Guiton, P. A., B.A. Lond. Lectr.
Petrie, A., M.A. Aberd., B.A. Camb. Prof.		

<i>Geology and Geography</i>		<i>Mathematics</i> , v. also <i>Physics</i>	
Jehu, R. M., M.Sc. Wales	Lectr.	McKinnell, J., M.A., B.Sc. Glas.	Prof.
<i>History</i>		<i>Physics</i>	
Hattersley, A. F., M.A. Camb.	[Prof.	Mesham, P., M.Sc. Liv.	Prof
<i>Law</i>		Coutts, J. R. H., M.Sc. Lond.,	
Burchell, F. B., M.A., LL.B. Camb.	[Prof.	A.Inst.P.	
Sweeney, G. M. J., B.A., LL.B.		Lectr. in Applied Maths.	
	Lectr.	<i>Zoology</i>	
		Warren, E., D.Sc. Lond.	Prof.

## GENERAL INFORMATION

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. A new Science block and a women's hostel were added in 1921 and a hostel for men in 1928. Students have access to Maritzburg *Botanical Gardens* and Govt. *Museum*.

Courses leading to the B.A., B.A. (Fine Arts), B.Com., B.Sc., M.A., M.Sc., etc., 1st examn. for B.Sc. in Agric. (including 1st yr.'s course for Med. students), LL.B., Natal Law Certif. and Natal Advocates' Law examn., Survey examn. (theory only). Recently Faculties of Engineering and Commerce have been instituted in Durban in co-operation with the Natal Technical College, five of the staff of which have become members of the Senate of the Natal Univ. College—four professors and one lecturer. One of the former is the Professor of Fine Arts; and a 4 yrs.' course for the B.A. (Fine Arts) is provided in Durban.

HOSTELS for women and men students.

PUBLICATION: *Calendar* (March).

## THE YEAR 1928

STUDENTS. Full-time: total 269.

DEGREES OBTAINED. B.A., 22; B.A. (Fine Arts), 3; LL.B., 2; B.Sc., 5; M.Sc., 3; B.Sc. (Eng.), 3; B.Com., 9. Diplomas (Education); Lower, 2; Higher, 18.

## THE POTCHEFSTROOM UNIVERSITY COLLEGE, TRANSVAAL

CHAIRMAN OF COUNCIL—Rev. I. D. KRÜGER.

RECTOR AND CHAIRMAN OF THE SENATE—Prof. POSTMA.

REGISTRAR—Prof. J. C. VAN ROOY.

## PROFESSORS AND LECTURERS

<i>Botany</i>		<i>Classics</i>	
Radloff, Miss M., M.Sc. Stell.	[Sr. Lectr.	Postma, F., D.Litt. Amst.	Prof.
<i>Chemistry</i>		du Plessis, L. J., M.A. Cape,	
du Plessis, D. J., Ph.D. Bonn, M.Sc.	[Lectr.	B.Econ.	Lectr.

<i>Dutch</i>		<i>Pedagogy</i>		[Prof.]
Boshoff, S. P. E., D.Litt. Amst.,		van Heerden, J. S., M.A. Harv.		
M.A. Cape	Prof.	Coetzee, J. C., M.A., M.Ed.,		
Dekker, J., M.A., D.Litt. Amst.		D.Phil. S.A.	Prof.	
	Sr. Lectr.	<i>Philosophy (Moral and Political)</i>		
<i>Economics</i>		van Rooy, J. C., M.A., Ph.D.		Prof.
Van der Merwe, J. P., M.A.,		Amst.		
D.Litt. Amst.	Sr. Lectr.	<i>Psychology and Logic</i>		
<i>English</i>		Stoker, H. G., M.A., Ph.D. Köln		
Norenus, Miss A. C., M.A.	Lectr.		Sr. Lectr.	
<i>German</i>		<i>Political Science</i>		
	[Lectr.]	du Plessis, L. L., M.A., B.Econ.		
Schulze, H. G., M.A., Ph.D. Bonn			Sr. Lectr.	
<i>History</i>		<i>Theology</i>		
v. d. Walt, A. J. H. J., M.A., Ph.D.		du Toit, J. D., D.D. Amst.	Prof.	
Berlin	Lectr.	du Plessis, J. A., B.A. Cape.	Prof.	
<i>Mathematics and Applied Maths.</i>		de Wet, C. J. H., D.D. Amst.	Prof.	
van Rooy, D. J., M.A.	Prof.	van Rooy, J. S., M.A., Ph.D.		
<i>Physics</i>		Amst.	Prof.	
van Wageningen, G., Cand. Maths.		<i>Zoology</i>		[Lectr.]
and Phys. Amst.	Prof.	Eiselen, G. T. S., M.Sc. Witw.		

## GENERAL INFORMATION

Founded 1869. For historical sketch, see *Year Book* for 1929, p. 503.

## THE YEAR 1929

**BENEFACTIONS.** Govt. grant, £11,160; Municipality, £250; Reformed Church, £1750.

**NEW POSTS.** 3 Professors, 1 Sr. Lecturer.

**STUDENTS.** Full-time: 251, including 38 graduates.

**DEGREES OBTAINED (1928).** B.A., 12; B.Sc., 4; B.D., 6; M.A., 4; M.Ed., 1; H.E.D., 9.

# RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN, C.P.

CHAIRMAN OF COUNCIL—THE BISHOP OF GRAHAMSTOWN.

MASTER AND CHAIRMAN OF SENATE—Sir J. ADAMSON, M.A., D.Litt.

REGISTRAR—Major E. B. WALKER, M.B.E., M.C.

## PROFESSORS, LECTURERS, ETC.

### *Art*

Moore, W. A., A.R.C.A. Prof.

Murray, Miss L. F. Lectr.

### *Botany*

Smith, N. J. G., M.A., B.Sc., Ph.D.

Camb. Prof.

Britten, Miss L., B.A. Cape Lectr.

### *Chemistry and Metallurgy*

Barker, W. F., Ph.D. Liv. Prof.

Smith, J. L. B., B.A. Cape, M.Sc.

Stell., Ph.D. Camb. Lectr.

Dugmore, L. M., M.Sc. Lectr.

Sapiro, R. H., M.Sc. Demr.

Prior, C., B.Sc. Demr.

### *Classics*

Bowles, C. W., M.A. Camb. and

Cape (Greek) Prof.

Smail, W. M., M.A. Ox. and Edin.,

B.A. Lond. (Latin) Prof.

Gane, E. G., M.A. Lond.

Actg. Lectr.

### *Commerce, Accounting, Business*

#### *Management, etc.*

Liddell, D., M.A., B.Com. Edin.

Sr. Lectr.

### *Drawing and Geophics*

Moore, W. A., A.R.C.A. Instr.

### *Dutch*

Dingemans, G. F., M.A. Edin. and

Cape Prof.

Hendrikz, Miss P., B.A. S.A.

Lectr.

### *Economics*

[Sr. Lectr.]

Hall, R. L., B.A. Ox. and Cape

### *Education*

The Master Prof.

McKerron, Mrs. G., B.A. Cape

Lectr.

Hendrikz, Miss P., B.A.

Head of Practising School.

Wild, E. H., M.Sc. S.A., Ph.D.

Lond.

3 Instrs.

### *English*

Kidd, A. S., M.A. Camb., Manc.,

and Cape Prof.

Jones, A. Watkin, B.A. Lond.,

B.Litt. Ox. Sr. Lectr.

### *French*

Bodmer, H. S Prof.

### *Geology and Mineralogy*

..... Prof.

Mountain, E. D., B.A. Camb.

Lectr.

McIntyre, R., B.Sc. Actg. Lectr.

### *German*

Weehuizen, P. B., M.O. Hol. Prof.

### *History*

Ewing, J., M.A., M.C. Prof.

Rousseau, I. J., B.A. Ox.

Sr. Lectr.

Ross, A., B.A. Lond. Actg. Lectr.

### *Law*

McKerron, G. G., M.A., LL.B.

Edin. and Cape Lectr.

Back, A. W., LL.B. Lond. Lectr.

### *Mathematics, Pure and Applied*

Williams, D., B.Sc. Lond. and

Cape Prof.

Martin, J., M.A. Camb. and Cape

Lectr.

Wood, A. H., M.A. Cape	Lectr.	Watson, S. W., B.A. Camb. and Cape	Lectr.
<i>Music</i>		Wiles, G. G., M.Sc.	Lectr.
Paterson, Miss K., A.R.C.M.	Lectr.	<i>Physiology</i>	
<i>Philosophy</i>		Drury, E. G. D., M.D. Lond. and Cape	Lectr.
Lord, A. R., M.A. Ox.	Prof.	<i>Zoology</i>	[Prof.]
Wild, E. H., M.Sc., Ph.D. Lond.	Sr. Lectr.	Duerden, J. E., M.Sc. Cape, Ph.D. J. Hopk., A.R.C.S. Lond.	
Levyno, E. C., B.A.	Demr.	Brock, Miss G. T., M.Sc., Ph.D.	Lectr.
<i>Physics</i>		Ox.	
Varder, R. W., M.A. Cape	Prof.		

## GENERAL INFORMATION

Incorporated 1904. For historical sketch, see *Year Book* for 1929, p. 505.

Rhodes Univ. Coll. possesses the only school specially built for the teaching of Fine Art in S.A.

LIBRARY. 18,600 vols.

LABORATORIES. Applied Maths., Bot., Chem., Geog., Geol., Metall., Mineral., Phys., Phys. Chem., Zool.

COURSES. B.A., B.Sc., B.Com., B.Econ., M.A., M.Sc., LL.B., Surveying, Law Certif. (Attorneys), Civil Service Law, Dipl. in Com., Higher and Lower Dipl. in Educ., Art Courses, 1st yr. Course in Med., Dent., Eng., Agric., Vet. Sc., Mining, and Music.

TUITION FEE for full degree course, £24.

COLLEGE SCHOLPS. open to graduates: 2 of £40, 1 of £50.

HOSTELS for 200 men ("College," "Botha," "Milner," and "Graham" Houses), 130 women ("Oriel" and "Jameson" Houses), with dining halls, etc. Board and Residence, £60 p.a. inclusive.

PUBLICATIONS. *Calendar* (November); *The Rhodian* (twice a year).

## THE YEAR 1928

BENEFACTIONS. Annual Grants: Rhodes Trustees, £1000; Municipal and Divisional Councils of Eastern Province, £2500; S. Rhodesia Govt., £500.

NEW BUILDING COMPLETED. New Physics Department and Physics and Chemistry Labs.

STUDENTS. Full-time, 375, including 32 graduates. Part-time, 74, including — graduates.

PURSUEING STUDIES ABROAD. Oxford, 6; Cambridge, 3; London, 3; Liverpool, 1; Leeds, 1; Edinburgh, 2; U.S.A., 1.

DEGREES OBTAINED. B.A., 36; M.A., 2; B.Sc., 27; M.Sc., 3; LL.B., 3; B.Com., 5. Diplomas: Higher Educ., 28; Survey, 11; Law Certif., 6.

# TRANSVAAL UNIVERSITY COLLEGE, PRETORIA, TRANSVAAL

CHAIRMAN OF COUNCIL—H. P. VEALE, B.A., M.B., Ch.B.

VICE-CHAIRMAN—C. H. MAGGS.

RECTOR—Prof. A. E. DU TOIT, M.A. Cape.

CHIEF CLERK—R. L. BARRY, B.Sc., M.B.A. N.Y.

## PROFESSORS AND LECTURERS

<i>Accountancy</i>		McIntosh, W. G., B.Arch. Witw.
Barnes, S. R., F.S.A.A.	Prof.	Lectr.
<i>Agricultural Botany</i>		van Riet Lowe, C., B.Sc. Lectr.
Hector, J. M., B.Sc. Aberd.	Prof.	Whale, G. R., M.R.S.I. Lectr.
Wyers, Miss E. E., B.A.	Asst.	Lawrie, A. Fraser, A.R.I.B.A. Lectr.
<i>Agricultural Chemistry</i>		
Ross, J. C., B.A. Cape, M.Sc., Ph.D. Illinois	Prof.	<i>Auditing</i>
van Wijk, L. P., B.Sc. Agr.	Asst.	Petyt, A. S. Lectr.
Theron, J. J., B.Sc., Ph.D.		<i>Banking</i> [Lectr.
Sr. Lectr., Chem. of Soils.		Arndt, E. H. D., M.A., Ph.D. Col.
<i>Agricultural Economics</i>		van Wermeskerken, W. Lectr.
Leppan, H. D., B.Sc. Tor.	Prof.	<i>Bantu Studies</i>
<i>Agricultural Engineering</i>		Lestrade, G. P., M.A. Harvard (Sesutho) Sr. Lectr.
van Tonder, A. J., B.A. Cape, M.Sc. Calif., A.C.G.I.		Dornan, S. S., B.A. (Ethnology, Soc. Anthropol.) Lectr.
Sr. Lectr.		Kockott, F. J. (Si-Zulu) Lectr.
<i>Agronomy</i>		<i>Bio-Chemistry</i> [Prof.
Pullen, A. R., M.Sc. Illinois, B.Sc. Agr.	Prof.	Pfaff, W., B.Sc. Edin., M.R.C.V.S. Graf, H., B.Sc., B.V.Sc. Lectr.
Haylett, D. G., B.Sc. S.A. and Ill., M.Sc. Ill., Ph.D. Corn.		<i>Botany</i> [Prof.
Sr. Lectr.		Bremekamp, C. E. B., Ph.D. Utrecht
<i>Ancient History</i>		Elbrecht, B., B.A., M.Sc. Sr. Lectr.
O'Grady, H., Litt.D.	Sr. Lectr.	Schweickerdt, H. G. W. J., Ph.D. Bonn, B.Sc. Lectr.
<i>Animal Husbandry</i>		Mogg, A. O. D., M.A. Camb. Lectr. in Ecology.
Bosman, A. M., B.Sc. Tor., Dean of the Faculty	Prof.	
<i>Architecture of Quantity Surveying</i>		<i>Chemistry</i> , v. also Phys.
Bell, John H., M.C., F.S.I., L.R.I.B.A.	Prof.	Malherbe, D. F. du T., M.A., Ph.D. Halle, Dean of Faculty Prof.
Anderson, G., A.R.C.A.	Lectr.	Schilz, W. E., D.I.C. Lond., Ph.D. Munich, M.Sc. Lectr.
Harvey, N., L.R.I.B.A. Mt. St. E.	Lectr.	Beyers, E. Lectr.

- Commerce*, v. also Ac., Auditing,  
Banking, Geog.  
Arndt, E. H. D., B.A. Cape, M.A.,  
Ph.D. Columbia  
Prof. of *Economics* and  
E. Hist.  
Viljoen, F. S., M.A., Ph.D.  
Sr. Lectr.  
Norval, A. J., D.Merc. Rotterdam  
Prof.
- Dairying*  
Davel, H. B., B.Sc. Iowa Prof.
- Dutch and Afrikaans*  
Le Roux, T. H., B.A. Cape, Litt.D.  
Leid. Prof.  
Kritzinger, M. S. B., M.A., D.Litt.  
Sr. Lectr.  
Rademeyer, J. H., M.A.  
Asst. Lectr.
- Economics*, v. Comm. and Econ.  
Hist.
- Education*  
Lovw, A. J., B.A. Cape, B.Sc.  
Edin. Prof.  
Bosman, J. C., M.A. Harv.  
Prof. (History and Prin-  
ciples of E.).  
Te Water, M. B., M.A., M.B., Ch.B.  
Hd. Child Guidance Clin.  
Thompson, S. L.  
Lectr. Child Guidance Clin.
- English*  
Wallis, J. P. R., M.A. Liv. Prof.  
Tillestad, R. M., M.A., LL.B.  
B.A. Ox. Sr. Lectr.
- Entomology* [Prof.  
Faure, J. C., M.A., B.Sc. Corn.  
Janse, A. J., D.Sc.  
Hon. Prof. (Systematic Ent.).
- French*  
Lamont, J. H. P., M.A. Wales,  
B. ès L. Sr. Lectr.
- German*  
de Villiers, W. P., B.A. Cape, Ph.  
and Litt.D. Ghent Prof.  
du Toit, M. L., M.A. Stel., Ph.D.  
Vienna Sr. Lectr.
- Geography and Econ. Geog.*  
Plummer, F. E., M.A. Camb.  
Prof.  
Hugo, C. F., M.A. Stell. Lectr.
- Geology*  
De Villiers, L. C., Ph.D., M.E.  
Freiberg Prof.  
Scholtz, D., M.Sc. Stell. Sr. Lectr.
- Greek*  
Reinink, H., Litt.D. Amst., Dean  
of Faculty Prof.
- History*  
Fouché, L., B.A. Cape, Ph. et  
Litt.D. Ghent Prof.  
Agar-Hamilton, J. A., M.A. Cape,  
B.A., B.Litt. Ox. Sr. Lectr.
- Home Economics*  
Davidtsz, Miss M. J., B.Sc.  
Columbia Sr. Lectr.  
Schutte, D. G., B.Sc. Iowa Lectr.
- Horticulture*  
Powell, H. Clark, B.Sc. Calif. Prof.
- Latin*  
Boxwell, J., M.A. S.A. Prof.  
O'Grady, H., Litt.D. Dub.  
Sr. Lectr.
- Law*, v. also Pol. Sc.  
Pont, D., B.A., LL.D. (Roman and  
Roman-Dutch and Jur.) Prof.  
Brookes, E. H., M.A., D.Litt.  
Lectr. (Const. L., S.A.  
Nat. Law and Admin.)  
De Wet, Q., B.A., LL.B.  
Lectr. (Statute Law).  
Reitz, R., LL.D. Amst.  
Lectr. (Rom. L.).  
Hoal, B., B.A., LL.B.  
Lectr. (Crim. L.).  
Dowling, W., B.A. Cape, B.C.L.  
Ox. Lectr. (Comp. L.).  
Heather, H. G.  
Lectr. (Insolvency).  
Lansdown, A. V.  
Lectr. (Rom. D. L.).  
Retief, M., LL.B. Stell.  
Lectr. (Merc. L.).  
Findlay, G. S., B.A., LL.B.  
Lectr. (Rom. D. L.).

Bresler, C. P., B.A. Cape, M.A.,  
LL.B. Lectr. (Rom. D. L.).

*Mathematics*

du Toit, A. E., M.A. Cape Prof.  
Duminy, J. P., M.A. Cape, B.A.,  
B.Sc. Ox. Sr. Lectr.  
de Loor, B., M.Sc., D.Phil. Amst.  
Lectr.  
King, J., M.Sc. Lectr.

*Mathematics, Applied*

Sherwood, E. T. G., B.A. Cape,  
M.A. Camb. Prof.

*Music*

Connell, J., F.R.C.O. Prof.

*Philosophy*, v. also Pol. Sc.

Hugo, T. J., B.A. Cape, Ph.D.  
Gron. Sr. Lectr.  
Findlay, J. N., B.A. Ox., M.A.  
Lectr.

*Physical Chemistry and Chemical Techn.*

Tromp, F. J., B.A. Cape and  
Camb., D.Sc. Prof.

*Physics and Physical Optics*

Gundry, P. G., Ph.D. Gött., B.Sc.  
Lond., A.R.C.S., Dean of  
Faculty of Science Prof.  
Voss, V., B.A. Cape, Ph.D. Johns  
Hop., M.Sc. Sr. Lectr.  
Immelman, M. N. S., M.Sc. Cape  
Lectr.

*Physiology*

Bremekamp, C. E. B., Ph.D.  
Utrecht Prof.

*Political Science, Pub. Admn.,  
and Const. Law*

Brookes, E. H., M.A., D.Litt. (also  
Lectr. in Philos.)  
Prof., Dean of Fac. of  
Commerce and Publ.  
Adm.

Gey van Pittius, E. F. W., M.A.,  
Ph.D. Lond. Temp. Sr. Lectr.

*Poultry*

van Rooyen, L. A., M.Sc. Cornell,  
B.Sc. Agric. Sr. Lectr.

*Psychology*

[Sr. Lectr.  
Skawran, P., Ph.D. Bonn.  
Willemse, W. A., B.A.

Asst. Lectr.

*Semitic Langs.*

Gemser, B., D.Litt. Th.D. Gron.  
Prof.

*Surveying*

van Tonder, A. J., B.A. Cape,  
M.Sc. Cal., A.C.G.I.  
Sr. Lectr.

*Theology*

Greyvenstein, J. H. J. A., B.A.  
Cape, Th.D. Utr. Prof.  
Macmillan, E., M.A., B.D. Glas.  
Prof.  
Gemser, B., D.Litt., Th.D. Gron.  
Prof.  
Engelbrecht, S. P., Th.D. Utr.  
Prof.

*Veterinary Anatomy*

Curson, H. H., D.M.V. Hanover,  
M.R.C.V.S. Prof.

*Vet. Bacteriology*

Robinson, E. M., D.M.V. Berne,  
M.R.C.V.S. Prof.

*Vet. Municipal Hygiene*

Goodall, A., F.R.C.V.S. Lectr.

*Vet. Medicine*

Farie, P. J. J., M.R.C.V.S. Prof.

*Vet. (State) Medicine*

Viljoen, P. R., D.M.V. Berne,  
M.R.C.V.S. Prof.

*Vet. Parasitology*

Mönnig, H. O., Ph.D. Zurich, B.A.,  
B.V.Sc. Prof.  
Le Roux, P. L., B.Sc. Edin.,  
M.R.C.V.S. Lectr.

*Vet. Pharmacology*

Steyn, D. G., B.Sc. Stell., Dr. Med.  
Vet. Vienna Lectr.

*Vet. Pathology*

de Kock, G. v. d. W., D.M.V.  
Berne, M.R.C.V.S. Prof.

*Vet. Pathol. Physiology*

Prof.

<i>Vet. Physiology</i>		<i>Vet. Surgery and Obstetrics</i>
Quin, J., B.V.Sc.	Lectr.	Quinlan, J. B., D.M.V. Hanover, D.V.Sc., F.R.C.V.S. Prof.
<i>Veterinary Science</i> , v. Agric.		
Henning, M. W., M.R.C.V.S. Prof.		<i>Zoology</i>
<i>Vet. Tropical Diseases and Proto-</i>		Malan, D. E., M.A. Cape, Ph.D.
<i>zoology</i>		Zür. Prof.
Du Toit, P. J., B.A. Cape, Ph.D.		Malan, D. J., M.Sc. Lectr.
Zür., D.M.V. Berl. (Dean of		<i>Zootechnics</i> [Lectr.
Faculty of Vet. Science) Prof.		Bisschop, J. H., B.Sc.Agr., B.V.Sc.

## GENERAL INFORMATION

Founded 1910. For historical sketch, see *Year Book* for 1929, pp. 508, 509.

COURSES are provided for all Degrees and Diplomas of the Univ. in Arts, Science, Agric., Vet. Sc., Law, Div., Music, and Commerce and Public Administration. FEE for full degree course, £17 : 5s. to £27 : 6s. p.a.

A special feature of the Univ. is the work done in the Extra-mural Faculties. In a building in the centre of the town three miles from the main buildings lectures are given, out of ordinary business hours, for the benefit of public servants, article clerks, commercial men and teachers. About 400 students are enrolled, practically all for full degree courses : for B.A., Law B.A., LL.B., B.Com., B.Econ., a Master's degree, Law Certificate, or Banker's Certificate. The Faculty of Agriculture is one of two in South Africa. It is specialised along different lines from the Faculty in Stellenbosch University, attention being paid to Animal and Field Husbandry and Citriculture (the only course of its kind in the British Empire). Courses in Sheep and Wool, leading to a degree, will be instituted early next year. The Faculty of Veterinary Science was grafted on to the existing world-famous Veterinary Research Laboratory at Onderstepoort. A five-year course in Tropical Veterinary Medicine is provided, leading to the degree of B.V.Sc. Full courses are provided for Architecture and Surveying. A Child Guidance Clinic was opened early in the year. Courses in Bantu Studies are being extended.

HOSTELS. 4 for men, including the Dutch and English Church Hostels, and 3 for women. Board and Residence, £60 p.a.

LIBRARY, 56,200 vols. LABORATORIES : Bot., Chem., Entom., Geogr., Geol., Phys., Physiol., Psychology, Zool., Agric., Bot., Agric. Chem., Agronomy, Vet. Anat. ASTRONOMICAL OBSERVATORY.

UNIVERSITY EXTENSION. The faculties of Agric. and Vet. Sc. co-operate with the Union Dept. of Agriculture in connexion with the extension train service organized by it. Public Lectures are being organized in Pretoria and surrounding districts.

PUBLICATIONS. *Calendar* (November) ; bulletins containing result of research by members of staff.

## THE YEAR 1928, 1929

RESIGNATION. A. A. ROBERTS, B.A., LL.B.

STUDENTS. Pursuing studies abroad : 2 at Oxford, 3 at Cambridge, 2 in London, 1 in Trinidad, 2 at Cornell, 2 at Illinois, 1 at Amsterdam, 1 at Edinburgh, 1 at Glasgow, 1 in California, 2 travelling, 1 at Utrecht.

Full-time : total, 834, including 114 graduates. Part-time : total, 50, including — graduates.

DEGREES OBTAINED. B.A., 42 ; M.A., 9 ; B.Sc., 7 ; M.Sc., 1 ; B.Com., 9 ; B.Econ., 10 ; LL.B., 1 ; B.Sc. (Agric.), 14 ; B.V.Sc., 5 ; M.Econ., 1 ; B.D., 1.

# UNIVERSITY OF STELLENBOSCH

CHANCELLOR—Prof. P. J. G. DE VOS, D.Litt.

VICE-CHANCELLOR—Prof. A. MOORREES, Litt.D. S. Afr., LL.D. Cape Town.

PRESIDENT OF CONVOCATION—Rev. H. J. PIENAAR, B.A.

CHAIRMAN OF SENATE—Prof. W. BLOMMAERT, Litt.D. Ghent.

REGISTRAR—D. J. KRIEL, B.A.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture*

Theron, C. J., M.Sc. Agric. (Enology and Viticulture) Lectr.

Neethling, J. H., M.Sc. Corn. (A. Botany) Prof.

Reinecke, O. S. H., B.S.A. Guelph (Fruit-culture) Prof.

Potgieter, J. T., Ph.D. Ohio, M.Sc. (Entomology) Prof.

Malherbe, I. de V., Ph.D. Mün., B.A. (A. Chem.) Prof.

Reimers, J. H. W., Agricultural Engineer, Wageningen (Animal Husbandry) Prof.

Van der Byl, P. A., M.A., D.Sc. (Plant Path.) Prof.

Grosskopf, J. F. W., M.A., Jur. Dr. Leiden Prof.

Marais, J. S., Ph.D. Illinois, B.A. (Agronomy) Prof.

Van der Merwe, Ivy M., B.Sc. Manitoba (Domestic Science) Lectr.

Frean, J. R., M.R.C.V.S. Lectr.

Verwoerd, L., M.Sc., D.Sc. Agric. Lectr.

Swart, J. C., M.Sc. Agric. Lectr.

Smit, B. J., Ph.D. Wisconsin, B.A. Lectr.

Sim, J. T. R., M.Sc. S. Afr. Lectr.

..... Lectr.  
du Toit, M. G., B.A., Ph.D. Lectr.  
Burt, M. C., B.A., B.Sc. Eng. Lectr.

Black, M. W., B.Sc. Agric. Lectr.  
*Bantu* [Lectr.

Eiselen, W. M., M.A., Ph.D. Hamb.

Engelbrecht, J. A., M.A., Ph.D. Hamb. Lectr.

*Botany* [Prof.  
Nel, G. C., B.A., Ph.D. Berl.

Duthie, Miss A. V., M.A. Lectr.  
Markötter, Miss E., M.Sc. Lectr.

*Chemistry*  
van der Merwe, C. D., Ph.D. Halle, B.A. Prof.

van der Riet, B. de St. J., Ph.D. Halle, M.A. Prof.

du Toit, D. F., D.Chem. Leid., M.A. Prof.

Joubert, D. B., Ph.D., M.Sc. Lectr.

Joubert, J. M., M.Sc., Ph.D. Lectr.

*Classics*  
van Braam, P., Litt.D. Utr., M.A. (Latin) Prof.

Edgar, C. S., B.A. Ox., M.A. Edin. (Greek) Prof.

Basson, J., Ph.D. Berl., M.A. (C. and Classical Philol.) Prof.

McCulla, J., M.A., R.U.I. Lectr.

*Dutch and Afrikaans*  
Pienaar, E. C., Litt.D. Utrecht, B.A. (Dutch) Prof.

van Niekerk, Lydia, Litt.D. Amst., B.A. (Dutch) Prof.

Smith, J. J., B.A., Barr.-at-Law (Afrikaans) Prof.

Celliers, J. F. E. (Literature) Prof.  
 Malherbe, F. E. J., M.A., Litt.D.  
 (Amst.) Lectr.  
 Uys, N. J., M.A. Lectr.

### *Economics*

Grosskopf, J. F. W., Dr. Jur. Leid.,  
 M.A. Prof.  
 Botha, J. H., Comm.Dr. Lectr.

### *Education*

Cillie, G. G., Ph.D. Stras., B.A.  
 Cruse, H. P., B.A., Litt.D. Amst.  
 Prof. (History of E.).

Malan, W. de V., B.A., Ph.D.  
 Columbia (Method) Prof.  
 Strasheim, J. J., M.A., Ph.D. Lond.  
 Prof. (Ped. Psych.).

Donald, M. M., M.A. Lectr.  
 Hofmeyr, Miss J. I., B.A. Lectr.  
 Hofmeyr, Miss A. S., B.A. Lectr.  
 Stockenström, E. C., B.A. Lectr.  
 Neethling, K. Lectr.

### *English*

Notcutt, H. C., Ph.D. Lond. Prof.  
 Walpole, V., M.A. Sheff. Lectr.  
 Hurst, H. N., M.A. Ox. Lectr.

### *French*

Franken, J. L. M., Litt.D. Ghent,  
 M.A. Prof.

### *Geography*

Serton, P., Litt.D. Utr. Prof.  
 Conradie, D. J., M.A. Lectr.

### *Geology*

Shand, S. J., Ph.D. Münst., D.Sc.  
 St. And. Prof.  
 Krige, A. V., D.Sc. Stell. Lectr.

### *German*

Friedlaender, E., Ph.D. Stras.  
 Hoge, J., Ph.D. Stras. Lectr.

### *Germanic Philology*

Bouman, A. C., Litt.D. Utr.

### *Hebrew*

du Plessis, J., D.Litt., B.A., B.D.

### *History*

Blommaert, W., Litt.D. Ghent.  
 le Roux, Miss M., B.A. Lectr.  
 Wüd, J. A., M.A., Ph.D. Berl.  
 (Hist. of S. Africa) Prof.

### *Law*

..... (Roman-Dutch L.) Prof.  
 Malherbe, W. M. R., Barr.-at-Law,  
 LL.D. Leid. Prof.  
 van Themaat, H. V. L., Dr. Jur.,  
 Dr. Jur. Pol. Leiden Lectr.  
 Steyn, I. v. Z., B.A., LL.B. Lectr.  
 Beyers, A. B., B.A., LL.B. Lectr.  
 Schumann, C. G. W., B.Sc., Comm.  
 Dr. Rotterdam Lectr.  
 Thomas, B. J. A. Lectr.

### *Logic and Psychology*

Wilcocks, R. W., Ph.D. Berl., B.A.  
 Verwoerd, H. F., D.Phil., M.A.  
 (Applied and Industrial Psy-  
 cology). Prof.

### *Mathematics*

Mackenzie, A. H., M.A. Aberd.  
 and Camb. Prof.  
 Stegmann, E. T., B.A., D.Sc. S.A.  
 Prof.

### *Mathematics, Applied, and Physics*

Morrison, J. T., M.A., B.Sc. Edin.,  
 F.R.S.E. Prof.  
 Malherbe, W. E., B.A., B.Sc.  
 Edin. Prof.  
 Cilliers, C. A., Ph.D. Frankfurt,  
 M.Sc. Lectr.  
 Harvey, S. C., B.A. Lectr.

### *Philosophy, Moral and Polit.*

Brümmer, N. J., B.D. St. And.,  
 M.A. Prof.

### *Physiology*

Battaerd, P., M.D. Leiden Prof.

### *Theology*

Moorrees, A., Litt.D., LL.D. Prof.  
 van Rooyen, E. E., Th.D. Amst.,  
 B.A. Prof.  
 du Plessis, J., B.A., B.D., D.Litt.  
 Cape Prof.  
 Keet, B. B., Th.D. Amst., M.A.  
 Prof.

### *Zoology*

De Villiers, C. G. S., M.A., Ph.D.  
 Zür. Prof.  
 Grobelaar, C. S., M.A., Ph.D.  
 Berl. Lectr.

## GENERAL INFORMATION

For early history, see *Year Book* for 1929, p. 512. The University was formally opened on April 2, 1918. By Act. No. 45, 1926, which came into force on October 1, 1926, the Faculty of Agric. (whilst remaining for academic purposes a faculty of the Univ.) was amalgamated with the Elsenburg School of Agric., situated in the division of Stellenbosch, to form the "Stellenbosch-Elsenburg College of Agric. of the Univ. of Stellenbosch." This closer co-operation with the Dept. of Agriculture aims at the better co-ordination of resources "for the promotion of agricultural science and the development of agriculture within the Union." In the main the scientific activities are centred at the University and the practical experimental and extension work at the Elsenburg Experiment Station (2600 acres). On the resignation of Dr. C. K. Brain (June 30, 1928), Dr. P. A. van der Byl was appointed Acting Principal of the College of Agriculture for two years, and Mr. T. W. G. Reinecke, M.Sc., Director of the Experiment Station.

The College of Agriculture is also in charge of the Cereal Experiment Station "Langgewens" (1150 acres) in the division of Malmesbury.

**FACULTIES.** Arts, Law, Education, Science, Theology, Agriculture, and Commerce.

**DEGREE COURSES.** B.A. (3 yrs.), B.Sc. (3 yrs.), B.Comm. (3 yrs.), B.Sc. Home Econ. (4 yrs.), B.Sc.Agric. (4 yrs.); LL.B. (4 yrs. or combined with B.A., 5 yrs.); M.A., M.Sc., M.Sc.Agric., M.Comm. (1 yr. post-grad.); B.Educ. (2 yrs. post-grad.); D.Sc., D.Phil., D.Litt., D.Comm. (2 yrs. after Master's degree); D.Sc.Agric. (1 yr. after the M.Sc.Agric.); LL.D. (2 yrs. after LL.B.); B.D. (3 yrs. post-grad.); D.Ed. (3 yrs. teaching experience after B.Educ. and 1 yr. further study and research). Courses are also provided for the Secondary Teachers', Higher Primary, and Primary Certificates; also for certificates in Nature Study, Commerce, and Home Economics.

**FEES.** Registration, £2 : 5s. p.a. (incl. sport and fees payable to Students' Representative Council); Library, 5s. p.a. Tuition per semester for master's or bachelor's degree, £10 (B.D., £5); Doctorate, £5 p.a. Laboratory per semester, £5 (max.). Exams.: B.A., B.Sc., B.Comm., B.Educ., £10; for master's degree, £5; Doctorate, £10; LL.B., £30; B.Sc.Agric., £20. Graduation, £2. Board and Residence, £44 p.a. to £60 p.a.

**LIBRARY.** 45,000 vols.

**SPECIAL EQUIPMENT, COLLECTIONS, ETC.** The Dept. of Botany possesses a large collection of the peculiar xerophytic flora of South Africa. The Dept. of Agricultural Chemistry has a building and equipment for manurial pot-experiments. The Dept. of Bantu Studies is building up a collection of specimens of native art and industry.

**PUBLICATIONS.** *The Calendar*; *The Stellenbosch Student* (by Students' Repr. Council); *Annals of the University of Stellenbosch* (by Senate).

**SCHOLARSHIPS FOR GRADUATES.** Generally tenable for 3 years, and open to holders of M.A., M.Sc., M.Sc.Agric., B.Educ., M.Comm., B.D., and LL.B. (with B.A.): Porter, Croll, Queen Victoria, Grey, Donald Currie, Union (each £150 p.a.), Hiddingh and Ebdon (£200 p.a.), Maynard (60 p.a.), H. B. Webb (£120 p.a.), Abe Bailey (£300 p.a.).

**EXTENSION WORK.** Evening lectures by members of Staff once a week.

**RESIDENCE.** The John Murray House, affording residence for 350 men

students, has been completed at a cost of £109,000. Altogether there are University hostels for 520 men and 190 women.

## THE YEAR 1928

The following visitors gave lectures or series of lectures upon the invitation of the Univ. during the year : Prof. J. Clark (Univ. of Cape Town) ; Dr. James Russel (Emeritus Prof. of Columbia University) ; Mr. S. Sastri (Repr. of the Indian Govt. in the Union of S. Africa) ; Mr. Ferguson (State Libr. of California) and Mr. Pitt (Public Library, Glasgow) visited this University as representatives of the Carnegie Corporation.

**RESIGNATION AND DEATH.** Prof. C. K. Brain (Entomology) on appointment as Secretary for Agriculture, Dept. of Agriculture, Rhodesia. Prof. Pauw died on Aug. 23, 1928.

**STUDENTS.** Full-time: total, 1197, including 170 graduates. Part-time, 128.

**DEGREES.** B.A., 108 ; M.A., 13 ; B.Sc., 22 ; M.Sc., 15 ; B.Sc.Agric., 41 ; M.Sc.Agric., 4 ; D.Sc.Agric., 1 ; B.Educ., 4 ; LL.B., 5 ; B.Comm., 6.

## UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, TRANSVAAL

CHANCELLOR—H.R.H. PRINCE ARTHUR OF CONNAUGHT.

VICE-CHANCELLOR—The Hon. J. H. HOFMEYR, M.A.

PRESIDENT OF CONVOCATION—Prof. R. F. A. HOERNLÉ, M.A., B.Sc.

CHAIRMAN OF COUNCIL—Sir Wm. DALRYMPLE, K.B.E.

PRINCIPAL—H. R. RAIKES, A.F.C., M.A.

SECRETARY OF SENATE—Prof. R. B. YOUNG, M.A., D.Sc., F.R.S.E.

REGISTRAR—H. W. J. VAN DER BRUGGE, M.A., LL.B., J.P.

ASSISTANT-REGISTRAR—I. GLYNN THOMAS, B.A.

LIBRARIAN—P. FREER, B.A., F.L.A.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>	Mockford, H. C., C.A. S.A.
Findlay, J., C.A. Edin., F.S.A.A.	Lectr. in <i>Auditing, Company Liquid'n, etc.</i>
Eng. Prof.	
Harkness, A. Lectr. in <i>Banking.</i>	<i>Actuarial Science, v. Maths.</i>
Barnes, W. J., C.A. S.A.	
Lectr. in <i>Income Tax.</i>	<i>Anatomy</i>
Dreyer, J. H., B.Cohn.	Dart, R. A., M.Sc. Queensland,
Lectr. in <i>Accounting.</i>	M.D., Ch.M. Syd. Prof.

- Shore, L. R., M.A., M.B., B.Ch.  
Camb., M.R.C.P. Lond.,  
D.P.H. Sr. Lectr.
- Shaw, J. C. M., M.A., B.D.S. Dub.  
Senr. Lectr. in Dental  
Anat., etc.
- Mellé, B. G., B.A. Cape, M.A.,  
B.M., B.Ch. Ox., F.R.C.S.  
Edin. Lectr. (Clinical A.).  
Jr. Lectr.
- Birbel, G. R.  
Hon. Demrs. :
- Macgregor, A. Lee, M.B., Ch.B.  
Edin., F.R.C.S. Eng.
- Brayshaw, H. C., M.B., Ch.B.,  
F.R.C.S. Eng.
- Architecture*
- Pearse, G. E., A.R.I.B.A. Prof.  
Lloyd, J. T. Sr. Lectr.
- Bruce, R. A. Part-time Lectr.
- Bell-John, H. Part-time Lectr.
- Bantu Studies*
- Hoernlé, R. F. A.  
Prof., Head of Dept.
- Doke, C. M., M.A. S.A., Diploma  
Compar. Bantu, Lond., D.Litt.  
Sr. Lectr.
- Hoernlé, Mrs. A. W., B.A. Cape  
Lectr. in *Social Anthropology*.
- Jones, J. D. R.  
Lectr. in *Native Law and  
Admin.* (part time).
- Ellenberger, R., B. ès L. Paris  
Lectr. in *Suto* (part time).
- Botany*
- Moss, C. E., M.A. Camb., D.Sc.  
Manc., B.Sc. Leeds, F.L.S.  
Prof.
- Moss, Mrs. M., M.A. Well.  
Sr. Lectr.
- Young, Miss E., M.Sc. S.A. Lectr.
- Welsh, Dorothy M., B.Sc. S.A.,  
B.Sc. (Acting) Jr. Lectr.
- Chemistry and Chem. Engineer-  
ing*
- Wilkinson, J. A., M.A. Camb.,  
F.C.S. Lond., M.I.Chem.E.  
Prof.
- Robertson, J. B., M.A., B.Sc.,  
Ph.D. Edin., F.I.C. Sr. Lectr.
- Krige, G. J. R., M.Sc. Stell., Ph.D.  
Gött. Lectr.
- Segal, B. Jr. Lectr.
- Chemistry, Organic* [Prof.]
- Stephen, H., O.B.E., D.Sc. Manc.
- Backeberg, O. G., B.A. Ox., M.Sc.,  
A.I.C. Lectr.
- Classics* [Prof.]
- Haarhoff, T. J., B.A., B.Litt. Ox.
- Williams, Miss M. V., M.A. Camb.,  
B.A. Cape Sr. Lectr.
- Wagner, A. I., B.A. Ox. and Cape,  
LL.B. Lond. Sr. Lectr.
- Acheson, G. J., M.A. Ox.  
Jr. Lectr.
- Dutch*
- Krige, J. D. A., Ph.D. Ghent, M.A.  
Cape (also Lectr. in German)  
Prof.
- Le Roux, J. J., B.A. Cape,  
Litt.D. Utrecht Sr. Lectr.
- Coetzee, A. J., B.A. Jr. Lectr.
- Economics, Econ. Hist., and  
Statistics*, v. also Hist.  
Prof.
- .....
- Frankel, S. H., M.A., Ph.D.  
Sr. Lectr.
- Jones, W. P.  
Hon. Lectr. in Public Finance.
- Education* [Prof.]
- Macgregor, W. R., M.A. Aberd.
- van der Merwe, P. J., M.A.  
Asst. (part time).
- Engineering, Electrical*
- Randall, O. R., M.Sc., Ph.D.  
Birm. Prof.
- Goldsmith, A., B.A. Cape, B.Sc.  
Eng. Sr. Lectr.
- Allan, J. I. Jr. Lectr.
- Engineering, Mechanical*
- Walker, W. J., D.Sc. Eng., Ph.D.  
St. And. De Beers Prof.
- Jensen, A. E., B.Sc. Lond. and  
S.A. Sr. Lectr.
- Gimkey, F., M.Sc. S.A. Sr. Lectr.
- Drysdale, J., A.M.I.E.S. Lectr.
- Engineering, Civil* [Prof.]
- Sutton, W. G., B.A., B.Sc. Cape
- Clark, A. D. Lectr.

- English*  
Drennan, C. M., M.A. Camb. and Lond. Prof.  
Lawrie, J. G., M.A. S.A. Sr. Lectr.
- French and Romance*  
Maingard, L. F., M.A., D.Lit. Lond., L. en D. Paris. Prof.  
Papenfus, Miss E. M., B.A., Ph.D. Lond. Lectr.
- Geography*  
Wellington, J. H., B.A. Camb. and Lond. Prof.  
Bell-John, Miss P. L., B.A. Jr. Lectr.
- Geology*  
Young, R. B., M.A. Glas., D.Sc. Edin. Prof.  
Janisch, Edna P., M.Sc. Lectr.  
Mendelssohn, E., B.Sc. Jr. Lectr.
- German, v. Dutch*
- Hebrew* [Prof.  
Landau, J. L., Ph.D. Vien., M.A.
- History*  
Macmillan, W. M., M.A. Ox. Prof.  
Hodgson, Miss V. M. L., B.A. Ox. and Cape Lectr.
- Law, v. also Bantu Studies*  
McKerron, R. G., M.A. Aberd., B.A., B.C.L. Ox. Prof.  
Murray, J. C. Prof. of Merc. Law.  
Assts. :  
Coaker, N. E., B.L., LL.B. S.A.  
Rissik, H., B.A. Cape, M.A., B.C.L. Ox.  
Wagner, A. I., B.A. (A.G.H.), LL.B. S.A. and Lond.  
Pollak, W., M.A., Ph.D. Harvard.  
Lourie, A., B.A., LL.B.
- Mathematics* [Prof.  
Dalton, J. P., M.A., D.Sc. St. And. (also Lectr. in Actuarial Sc.)  
Constançon, C., Dip. Ing. Zür. Sr. Lectr.  
Wood, H. E., M.Sc. Manc. Lectr. in Astron. (part time).  
Kerrich, J. E., B.Sc. Jr. Lectr.  
Young, F., B.A. Jr. Lectr.
- Maths., Applied* [Prof.  
Le May, H., M.A., B.Sc. Glas.  
Rosenberg, R. L., B.A. Jr. Lectr.
- Metallurgy and Assaying*  
Stanley, G. H., A.R.S.M., F.I.C., M.I.M.E., M.I.M.M. Prof.  
Millin, D., B.A. Cape, F.I.C. Sr. Lectr.  
Davidson, A. C. Jr. Lectr.
- Mining and Surveying*  
Watermeyer, G. A., B.A. Cape, A.R.S.M. De Beers Prof.  
Hoffenberg, S. N., B.Sc. (Eng.) Sr. Lectr.
- Music*  
Kirby, P. R., M.A. Aberd., A.R.C.M. Prof.  
Duggan, C. A. O. Lectr.  
Paff, W., A.R.C.M., L.R.A.M. 7 Instrs.
- Philosophy* [Prof.  
Hoernlé, R. F. A., M.A., B.Sc. Ox.  
MacCrone, I. D., M.A. Cape, B.A. Ox. Lectr.  
Du Plessis, Hester L., B.A. Jr. Lectr.
- Physics*  
Paine, H. H., M.A. Camb., B.Sc. Lond. and Wales Prof.  
Evans, G. T. R., B.Sc. Wales Sr. Lectr.  
Cooper, M. A., M.Sc. S.A. Lectr.  
Halliday, E. C., M.Sc. Cape T. Jr. Lectr.
- Physiology*  
Stammers, A. D., M.A. Camb., D.Sc. S.A. O. Beit Prof.  
..... Sr. Lectr.
- Statistics, v. Economics*
- Zoology*  
Fantham, H. B., M.A. Camb., D.Sc. Lond., Fell. Univ. Coll. Lond. Prof.  
van der Horst, C. J., Ph.D. Amster. Sr. Lectr.  
Paterson, Miss N. F., M.Sc. Lectr.  
Schuurman, Miss J. F. M., M.Sc. Jr. Lectr.

Medicine (for subjects of first  
2 yrs.—Anat., etc., v. *supra*)

*Ethics, Medical*

Heberden, W. S., M.R.C.S. Eng.,  
L.R.C.P. Lond. Lectr.

*Forensic Medicine*

Levin, J. J., M.B., Ch.B. Edin.  
(also (C) in Surg.) Sr. Lectr.

*Gynæcology*

Grant, W. Gordon, M.D. Aberd.  
Te Water, S. K., M.B., Ch.B.  
Edin. (C).

*Medicine*

Williamson, O. K., M.A., M.D.  
Camb., F.R.C.P. Lond. Prof.  
Girdwood, R. L., M.D., Ch.B.  
Edin. Sr. (C).  
Bloom, A., M.B., Ch.B. Edin.,  
D.P.H. Lond. Sr. (C).  
Balkin, I. J., M.B., Ch.B. Edin.  
(C).

Braun, L. I., M.R.C.P., M.D.,  
B.S. Lond. (C).  
Block, I. J., M.B., Ch.B. Edin.,  
F.R.C.P.S. Glas., F.R.C.S.  
Edin. (C).

Gordon, Mary, M.B., B.S. Durh.  
(C).

Heimann, H. L., B.A. Cape, M.D.,  
B.S. Lond., M.R.C.P. Lond.  
(C).

Mackenzie, R. P., C.M.G., M.B.,  
C.M. Edin., D.P.H. Camb.  
Lectr. (Skin Diseases).

Gluckman, I., M.R.C.S. Eng.,  
L.R.C.P. Lond.  
Hon. Asst. Lectr.

Woolf, E. B., M.R.C.S. Eng.,  
L.R.C.P. Lond.  
Hon. Lectr. (Physio-Therapy).

Orenstein, A. J., C.M.G., M.D.  
Philad.  
Lectr. (Tropical Dis.).

Porter, Chas., M.D., Ch.B. R.U.I.,  
D.P.H. Camb.  
Instr. (Vaccination).

Baumann, E. P., M.D., Ch.B.  
Edin., M.R.C.S., L.R.C.P.

Lectr. (Med. Dis. of  
Children).

Blieden, M., M.D. Penn  
Hon. Asst. Lectr.  
(Children's Diseases).

Loeser, H. A., M.D. Zür.  
Lectr. (Acute Infect. Fevers).

Mellé, B. G., B.A. Cape, M.A.,  
B.M., B.Ch. Ox., F.R.C.S.  
Edin. (C).

Charlton, R. J. W., M.B., Ch.B.  
Edin. Hospital Warden.

*Psychiatry*

Dunston, J. T., M.D., B.S. Lond.  
Hon. Prof.

van Coller, A. S., M.B., Ch.B.  
Glas. (C).

Russell, W., M.D., Ch.B. Edin.  
(Hon. C).

*Obstetrics*

Maxwell, W. H., M.A., M.B.  
Camb., M.R.C.S. Eng. (C).

Black, J. Tutor.  
Don, J. D. (C).

*Pathology and Bacteriology*

Lister, Sir Spencer, M.R.C.S. Eng.,  
L.R.C.P. Lond. Hon. Prof.

Strachan, A. S., M.B., Ch.B. Glas.  
Head of Dept. and Sr. Lectr.

Becker, J. G., M.B. Glas., D.P.H.,  
D.T.M. Liv. Sr. Lectr.

Porter, Annie, D.Sc. Lond.  
Sr. Lectr. (Parasitology).

*Pharmacology*

[Prof.  
Watt, J. M., M.B., Ch.B. Edin.  
Oefelein, F., Ph.D. Jr. Lectr.

*Public Health*

Porter, C., M.D., Ch.B. R.U.I.,  
D.P.H. Camb., LL.D.  
Sr. Lectr.

*Radiology*

[Lectr.  
Steuart, W., M.R.C.S., L.R.C.P.  
Olivier, P. J. Asst. Lectr.

- Surgery*, v. also Forensic  
 Thomson, G. Ritchie, C.M.G.,  
 M.B., C.M. Edin. Prof.  
 Brebner, J. W., M.B., Ch.B. Edin.  
 Sr. (C).  
 Levin, J. J., M.B., Ch.B. Edin.  
 Welchman, W., M.B., B.S. Lond.,  
 F.R.C.S. Eng. Sr. (C).  
 Maisels, I., M.B., Ch.B. Edin.  
 Hon. Sr. Lectr. in Urology.  
 Mudd, F. B., M.R.C.S., L.R.C.P.  
 Lectr. (Anæsth.).  
 Gluckmann, H., M.R.C.S., L.R.C.P.  
 Lectr. (Venereal Dis.).  
 Greenberg, M., M.B., Ch.B.,  
 F.R.C.S. Edin. Lectr. (C).  
 Beyers, C. F., B.A. Cape, M.B.,  
 B.S. Lond., F.R.C.S. Eng.  
 Lectr. (Surg. Appl. Anat.),  
 Demr. (Op. Surg.) (C).  
 Dauth, D. J., M.D., Ch.B. Edin. (C).
- Diseases of Children*  
 Ross, R. A., M.B., Ch.M. Edin.,  
 F.R.C.S. Eng. Lectr.  
 Douglas, J. A., M.B., Ch.B. Edin.  
 Hon. Asst. Lectr.
- Ear, Nose, and Throat*  
 Pink, W. L., M.B., B.S. Lond.,  
 F.R.C.S. Eng. Lectr.  
 Campbell, A., M.B., Ch.B., D.P.H.,  
 R.C.P.S., F.R.C.S. Edin.,  
 R.F.P.S. Glas.  
 Hon. Asst. Lectr.  
 Andrew, T. F., M.C., M.B., Ch.B.,  
 F.R.C.S. Edin.  
 Hon. Clin. Lectr.
- Eye*  
 Brinton, A. G., F.R.C.S. Edin.,  
 L.R.C.P. Lectr.  
 Meyer, R. C. J., B.A. Cape, M.D.,  
 F.R.C.S. Edin., D.O. Ox.  
 Hon. Asst. Lectr.  
 Hon. Demrs. (Anæsth.) :  
 Gordon, Mary, M.B., B.S. Durh.
- Weinbrenn, B., M.B., Ch.B. Edin.  
 Hall, Greenwood, M.B., Ch.B.  
 Durh.  
 Fouché, F. P., M.B., Ch.B., M.D.  
 Edin., F.R.C.S. Eng.  
 Clin. Tutor.
- Venereal Diseases*, v. *Surgery*
- Dentistry* (v. also *Anat.*)  
 Shaw, J. C. M., M.A., B.Dent.Sc.,  
 D.D.S. Hd. of Dept.
- D. Anatomy, Phys. and Hist.*  
 Shaw, J. C. M. Sr. Lectr.
- D. Oral Anæsthesia*  
 Foote, H. J., M.B., Ch.B., L.D.S.  
 Edin. Lectr.
- D. Dis. of Children*  
 Cassel, D., B.A., C.G.H., D.D.S.  
 Mich. Lectr.
- Orthodontia*  
 Braun, M. F., L.D.S., R.C.S. Eng.,  
 D.D.S. Penn. Lectr.
- Prosthetics*  
 Berry, T. B., L.D.S., R.C.S. Eng.,  
 B.Sc. Eng. Cape Lectr.
- D. Radiology*  
 Denhart, J. E., L.D.S., R.C.P.S.  
 Glas., D.D.S. Mich. Lectr.
- Operative D. Surgery*  
 Hunter, B. Mitchell, L.D.S., R.C.S.  
 Edin., D.D.S. Penn. Lectr.
- D. Pathology and Histo.-Path.*  
 Friel, G., L.D.S. Irel. Lectr.
- General Anæsthetics*  
 Brudd, F. B., M.R.C.S., L.R.C.P.
- Oral and Gen. Surg.*  
 Brebner, J. W., M.B., Ch.B.,  
 F.R.C.S. Edin. Lectr.
- Oral and Gen. Med.*  
 Bloom, A., M.B., Ch.B. Edin.  
 Lectr.

(C) = Clinical Lecturer.

ASSOCIATED INSTITUTIONS. There are several hospitals as well as an Instn. for Med. Research in which students of Med. carry out a part of their curriculum.

## GENERAL INFORMATION

Telegraphic address—University, Johannesburg.

For early history, see *Year Book* for 1929, p. 518. In 1921 University College, Johannesburg, was reincorporated as the University of Witwatersrand, Johannesburg, with effect from March 1, 1922. This development was made possible partly by support from the public, including contributions by the Chamber of Mines (£50,000), Standard Bank of S.A., Nat. Bank of S.A., Central Mining and Investment Corporation, and De Beers Cons. Mines, Ltd. (£10,000 each), Sir Otto Beit (£8000), and many others, amounting in all, up to the end of 1922, to over £220,000. The Municipality provided a fine site (100 acres) at Milner Park, a mile from the centre of the town. Expenditure on buildings and lay-out up to June 1928 amounted to £450,000. LIBRARIES: Central, and several departmental. MUSEUMS: Several Departmental.

FACULTIES: Arts, Sc., Med., Engin., Comm., Law.

DEGREES. B.A., B.Sc. or B.Mus., 3 yrs., Hons. 1 yr.; M.A. or M.Sc., 1 yr. after Hons. and Thesis; D.Litt., D.Phil., LL.D., or D.Sc., Thesis; B.Ed., 2 yrs. (post-grad.); M.Ed., Thesis; B.Com. 4 yrs.; M.Com., Exam. and Thesis; B.Sc. (Eng.), 4 yrs.; M.Sc. (Eng.), Thesis; B.Arch., 5 yrs.; M.Arch., Thesis; LL.B., 3 yrs. (post-grad.); LL.M., Thesis; M.B., Ch.B., 6 yrs.; M.D. or M.S., Thesis and Examn. An alternative course for the B.Sc. in Mining and Metallurgy provides for employment in the mines of students in their 4th year.

DIPLOMAS. Classics, French, Afrikaans, German, Economics, Geography, Philosophy, Archit., Music, Bantu Studies, Public Health, Tropical Medicine and Hygiene, Psychological Medicine, Actuarial Maths. COURSES for Teachers' Certif., Law Certif., Civil Service Law examn., Land Surv. FEES from 12 gs. p.a. (Civil Service Law) to £35 (M.B.).

SCHOLARSHIPS open to Graduates: Chamber of Mines, £250; Union, 2 of £150 each for 3 yrs.; Ainsworth (Mod. Hist.) every 2 yrs., £150 p.a. for 2 yrs.; H. B. Webb Research Gift, £200.

RESIDENCE. Hostels for 160 men and 35 women. Fees, £60 p.a.

UNIV. EXTENSION. Public lectures under joint auspices of Univ. and W.E.A. Discussion circles; afternoon and evening courses for teachers and others in regular employment, who may by attending them qualify for B.A. degree.

PUBLICATIONS. *Calendar*; *Bantu Studies*; *Umpa* (S.R.C.).

## THE YEAR 1928

BENEFACTIONS. Union Government, £76,161 for current expenditure, £36,750 for building, £950 for Bantu Research, £1356 for Bursaries and Scholarships; Johannesburg Municipality Grant, £6000 for general purposes and £5000 for bursaries; other Reef Municipalities, £700 for bursaries; Witwatersrand Council of Education, £1000 for bursaries, £194 for general purposes; Witwatersrand Univ. Committee, derived from public subscriptions, £14,500; bequests and donations, £1015.

HONORARY DEGREES. D.Sc.—D. Draper. LL.D.—Gen. the Hon. J. B. M. Hertzog (P.M. of the Union).

STUDENTS (1928). Full-time: total, 1476, including 166 graduates.

DEGREES (1928). B.A., 76, Hons., 9; B.Sc., 17, Hons., 5; M.A., 1; M.Sc., 4; D.Sc., 1; B.Mus., 1; M.B., Ch.B., 19; B.D.S., 2; B.Sc. (Eng.), 24; M.Sc. (Eng.), 1; B.Arch., 1; B.Com., 12; LL.B., 6; Diplomas, 11 (of which 7 post-graduate).

# COLLEGE OF AGRICULTURE, MAURITIUS

PRINCIPAL AND CHAIRMAN OF ADVISORY BOARD—The Hon. D. d'EMMEREZ DE CHARMOY, I.S.O.

REGISTRAR—M. KOENIG, A.Inst.P.

## LECTURERS

*Agronomy*—The Principal and 2 others.

*Biology and Entomology*—Moutia, A., and 2 others.

*Botany and Mycology*—Shepherd, E. F. S., B.S.A. McG.

*Chemistry*—Craig, N., M.Sc.; Lincoln, R., B.A. Camb.

*Physics*—The Registrar.

*Surveying and Agric. Engineering*—Avice, R., A.R.T.C.

Also Lecturers in Animal Husbandry, Book-keeping, Sugar Technology, and Veterinary Science.

## GENERAL INFORMATION

The College is administered as an integral part of the Department of Agriculture of the Colony. The cost of the building (opened Jan. 1925) and equipment was £14,000. Experimental fields and farms cover 60 acres. Laboratories provide accommodation for research in Chemistry, Entomology, Botany, Mycology, Physics, and Sugar Technology. Athletic grounds are attached to the College.

A three-years' course leads to the Diploma of the College. Short courses in the inter-crop period are provided for estate employees and special courses for agricultural and sugar-house chemists. The exams. of the City and Guilds of London Institute in sugar technology are held at the College.

The College year begins in January.

Minimum age for admission, 17. Evidence of general education up to matriculation standard is required.

Tuition fee for British subjects not natives of Mauritius, £20 p.a.

**NEW DEPARTMENTS AND POSTS.** The addition of a Research Section to the Mauritius Agricultural College has now received official sanction. Three research officers, viz., a Soil Physicist, a Genetist, and a Plant Pathologist will shortly be appointed. New laboratories will be fitted up. The annual expenditure is estimated at Rs. 50,000, and will be, in part, defrayed by the Empire Marketing Board for a limited period.

## THE YEAR 1928-9

**RETIREMENTS.** Dr. H. Tempany, Principal, promoted to the Directorship of Agr., F.M.S.; Mr. W. H. Edwards, D.I.C., promoted to be Govt. Entomologist, Jamaica.

**STUDENTS.** Full-time, 18. Part-time: total, 6, including 3 graduates.

**DIPLOMAS** awarded (in Agric.), 4.

# THE HEBREW UNIVERSITY, JERUSALEM

PRESIDENT—CHAIM WEIZMANN, Sc.D. Freib., D.Sc. Manc.

CHANCELLOR—JUDAH L. MAGNES, Ph.D. Heid.

TREASURER—NORMAN BENTWICH, M.A. Camb.

REGISTRAR—S. GINZBERG, L. ès L., Dipl. Phil. Sorbonne.

LIBRARIAN—HUGO BERGMANN, Ph.D. Prague.

This University (in mandated territory) was opened on April 1, 1925, by Lord Balfour, as a group of Research Institutes. It is provisionally registered under the Law of Societies of Palestine. The language of instruction is Hebrew. Undergraduate instruction is now given in the Humanities. Non-degree teaching in the biological sciences is in process of organization.

LIBRARY (National and University), 220,000 vols. Includes the Goldzieher collection of books and periodicals on Arabic and Oriental Lit. and the mathematical library of the late Felix Klein of Göttingen. Among its many manuscripts are the original of Einstein's Theory of Relativity and the Schwadron Collection of 2700 autographs and 1300 photographs of Jewish men and women of distinction. The recently built Wolffsohn Memorial Building has complete modern library equipment, with stack room capacity for half a million vols. A bibliographical quarterly, *Kirjath Sepher*, is published.

## FACULTY OF HUMANITIES.

(a) *Institute of Jewish Studies* (inaugurated Dec. 22, 1924). Chairman of Council—Chief Rabbi Dr. Hertz of London. Representative of the Council in Palestine—Dr. J. L. Magnes. Professors: J. N. Epstein, Ph.D. Berne (Talmudic Philology); J. Klausner, Ph.D. Heid. (Modern Hebrew Lit.); S. Klein, Ph.D. (Palestine Research). Lectrs.—S. Assaf, Rabbi (Gaonic Period); Z. Diesendruck, Ph.D. (Jewish Philos.); A. Gulak, dipl. Jur. (Jewish Law); A. Ruppin, Ph.D. (Jewish Sociology); G. Scholem, Ph.D. (Jewish Mysticism); Rabbi M. Segal, M.A. (Jewish Commentators on the Bible); D. Yellin (Hebrew Poetry of the Spanish Period). Field Archæologist—L. Sukenik, Ph.D. Preparatory Division—M. Schwabe, Ph.D. (Latin and Greek). Number of students in 1928, 65; auditors, 22. Publications: *Annals of the Hebrew Univ.*; *Jewish Studies*.

(b) *School of Oriental Studies*. Arabic section, inaugurated March 1926. Visiting Director, J. Horowitz, Ph.D. Berlin, of Frankfurt. Lectrs.—L. Billig, M.A. (Arabic Lit.); S. D. Goitein, Ph.D. (Arab. and Moslem Hist.). Preparatory Division: T. Rivlin, Ph.D. Junr. Assts.—N. Braun, Ph.D.; W. Fischel, Ph.D.

(c) *Courses in Philosophy, History and Letters*. Associate Prof. L. Roth, M.A., D.Phil. Ox. (Ahad Ha'am Chair of Philosophy). Lectrs.—H. Bergmann, Ph.D. (Mod. Philosophy); M. Schwabe, Ph.D. (Classical Philology). Instrs.—H. Pflaum, Ph.D. (Mediaeval Lit.); A. Tcherikover, Ph.D. (Greek and Roman Hist.).

INSTITUTE OF MATHEMATICS (estd. 1928). Director—Prof. A. Fraenkel, Ph.D. Marburg. Assoc. Prof.—M. Fekete, Ph.D. (Pure Maths.). Asst.—B. Amira, D. ès Sci. Math. (Pure Maths.).

INSTITUTE OF PHYSICS (being organized). Asst.—S. Sambursky, Ph.D.

DEPARTMENT OF BIOLOGICAL AND COLLOIDAL CHEMISTRY (estd. 1924). Director—Prof. A. Fodor, Ph.D. Zurich. Assts.—M. Frankel, Ph.D. (Synth.

Bio-Chemistry); A. Reifenberg, Ph.D., Dipl.Agr. (Appld. Biol. and Coll. Chem.). Junior Assts.—H. Epstein, Lic. ès Sci.; R. Schoenfeld.

DEPARTMENT OF GENERAL CHEMISTRY (estd. 1924). Assts.—M. Bobtelsky, Ph.D. (Anal. Chem.); R. Rivlin, Ph.D. (Phys. Chem.); M. Weizmann, D. ès Sci. (Appld. Chem.). Junior Asst.—S. Malkowa, Dipl. Chem.

INSTITUTE OF PALESTINE NATURAL HISTORY (estd. 1926). Director—Prof. O. Warburg, Ph.D. Strass. Research Fellow—F. Bodenheimer, Ph.D. (General Zool.). Assts.—J. Aharoni (Syst. Zool.); L. Picard, Ph.D. (Geol.). Custodian, Herbarium—A. Eig (Syst. Bot.). Special Asst.—E. Ha-Reubeni, Ph.D. (Biblical Bot.). Junr. Assts.—N. Feinbrun, L. en Sci. Nat.; G. Fraenkel, Ph.D.; M. Zohari.

DEPARTMENT OF PARASITOLOGY (estd. 1924). Director—Prof. S. Adler, M.B., Ch.B. Leeds, D.T.M. Liv. Assts.—O. Theodor, Ph.D. (Entom.); G. Witenberg, Dipl.Vet. (Helminth.).

DEPARTMENT OF HYGIENE (estd. 1926). Director—Prof. I. J. Kligler, Ph.D., Columb. Assts.: A. Geiger, M.D. (Physiol.); L. Olitzky, M.D. (Bacter.). Junr. Assts.—M. Ashner; R. Comaroff, B.Sc.; G. Mer, M.D. Special Junr. Asst.—R. Mueller, Eng.Agr.

PUBLICATIONS. *Yearbook* (in English and Hebrew); the Hebrew University Press Association publishes *Tarbiz*, a Quarterly Review of the Humanities.

## THE YEAR 1928-29

LAND AND BUILDINGS. The University site on Mount Scopus overlooks the City of Jerusalem and the Jordan Valley. The land held by or for the Univ. now exceeds 200 dunams (fifty acres), most of it registered in the name of the Jewish National Fund. The Univ. buildings comprise a building for the Inst. of Chem. and the Departs. of Parasit. and of Hyg.; the Wattenberg buildings for the Inst. of Maths. and the Inst. of Physics; the Library (the Wolffsohn House); three service buildings (offices, power station, and workshops); an Animal House; and the Open Air "Minnie Untermeyer Memorial Theatre" seating c. 2500. A rented house close to the Univ. serves for the Fac. of Humanities pending the erection of the Rosenbloom Memorial Building for that Fac. and the Assembly Hall.

SCHOLARSHIPS. Several scholarships ranging from L.P. 25 to L.P. 100 are available in Chem., Agric., Maths., Jewish Hist. and Philos., Arabic and Oriental Studies. In addition several stipends are set aside for promising students.

VISITING LECTURERS. Lectures by Prof. L. Elbogen (*Hochsch. für Wissensch. des Judenthums*, Berlin); Prof. M. Khalil (Univ. of Cairo); Prof. J. J. Obermann (Jewish Inst. of Religion, New York); Prof. Pappenheim (Univ. of Vienna), and Prof. W. Weygandt (Univ. of Hamburg).

ACADEMIC HONOUR. Dr. W. F. Albright, Dir. of the American Sch. of Oriental Res. in Jerusalem was made Corresponding Member of the Sch. of Oriental Studies on his appt. as Prof. of Semitics at Johns Hopkins Univ.

STUDENTS and AUDITORS—250.

# UNIVERSITY OF MALTA

VISITOR—H.E. THE GOVERNOR OF MALTA.

PRESIDENT OF THE GENERAL COUNCIL AND RECTOR—Prof. T. AGIUS,  
M.A., M.D., F.R.Met.S.

SECRETARY—A. F. SCIORTINO.

## PROFESSORS, LECTURERS, ETC.

<i>Anatomy and Histology</i>		<i>Mathematics and Pract. Engin.</i>	
Busuttill, R., M.A., M.D.	Prof.	Nixon, W. F., B.Sc. Lond.,	
.....	Asst. Prof.	A.R.C.S. Lond., Wh. Ex.	
<i>Biology, v. Nat. Hist.</i>			Prof.
<i>Chemistry</i>		<i>Mechanics, Applied, and Drawing</i>	
Sultana, A., M.D.	Prof.	Gatt, J. L., L.S. and A.	Prof.
		<i>Medicine and Surgery, v. infra</i>	
<i>Engineering and Architecture</i>		<i>Natural History</i>	
Galea, R. V., L.S. & A., (also		Borg, John, M.A., M.D.	Prof.
Lectr. in Descr. Geom. and		<i>Pathology</i>	
Arch. Drawing)	Prof.	Vincenti, R., M.D.	Prof.
<i>English Literature</i>	[Prof.	Azzopardi, J., M.D.	Asst. Prof.
Fogarty, Owen J., B.A. (N.U.I.)		<i>Philosophy, v. Logic</i>	
<i>Italian Literature</i>		<i>Physics</i>	
Laurenza, V., D.Lit. (Naples)	Prof.	Borg, S., M.D.	Prof.
<i>Latin Literature</i>		<i>Physiology</i>	
.....	Prof.	Xureb, P., B.Sc., M.D.	Prof.
<i>Law</i>	[Prof.	<i>Political Economy</i>	
Vassallo, Most Rev. Can. Mons. E.,		.....	Prof.
Jur. Can. Doc. (Canon L.)		<i>Theology</i>	
Mallia, C., B. Litt., LL.D. (Comm.		Formosa, Most Rev. Can. Mgr. G.,	
L.)	Prof.	B.A., D.D., J.U.D.	
Vassallo, E. C., M.A., LL.D.			Prof. of Dogm. T.
(Const. and Internat. L.)	Prof.	Zammit, Most Rev. Can. Mons. C.,	
Ganado, E., LL.D. (Civil L.)	Prof.	D.D.	Prof. of Moral T.
Randon, L. A., B.A., LL.D.		Callus, Rev. D., O.P.	
(Crim. & Science of L.)	Prof.		Prof. of Holy Script. and
Bartolo, A., B.Litt., LL.D.,			Hebrew.
F.R.Hist.S. (Hist. of Legislatn.			
in England and Malta)	Prof.	<i>Medicine</i>	
Frendo, P. G., LL.D. (Fiscal Laws,		<i>Forensic M. and Toxicology</i>	
Statistics and Admn.)	Prof.	Hyzler, J., B.Sc., M.D.	Prof.
<i>Logic and Philosophy</i>		<i>Hygiene and Preventive M.</i>	
Cuschieri, Senator Very Rev. A.,		Bernard, A. V., M.B.E., M.D.,	
O.C.	Prof.	D.P.H.	Prof.

<i>Materna M., Pharmacy, and Therap.</i>		<i>Midwifery and Gynæcology</i>	
Cassar, I., M.D.	Prof.	Debono, G., M.D.	Prof.
		Harding, H., M.D.	Asst. Prof.
<i>Medicine</i>		<i>Ophthalmology</i>	
Ferro, E. H., B.A., M.D.	Prof.	Preziosi, Cont. L., B.Sc., M.D., D.O. Ox.	Prof.
Debono, J. E., B.Sc., M.D.	Asst. Prof.	<i>Surgery</i>	
		Debono, P. P., M.D., D.P.H.	
<i>Mental Diseases</i>		Camb., F.R.C.S. Engl. Prof.	
Toledo, R. M., M.A., M.D.	Prof.	.....	Asst. Prof.

## GENERAL INFORMATION

Founded in 1769 by Grand-Master Fra Emmanuel Pinto de Fonseca of the Order of St. John under the authority of Pope Clement XIV., the University is lodged in a building erected by the Jesuit Fathers in 1591-93 for a College, whilst its Medical Faculty originated in a School of Anatomy founded in 1674 by Grand-Master Nicola Cottoner in the Great Hospital of the Order, which accommodated 745 patients. The authorities of the University as reconstituted by a Govt. Statute of 1921 are the Visitor, the Rector, the General Council (consisting of the Rector, six Professors, and three members elected by Convocation), six Faculty Councils, and Convocation.

**LIBRARY**, 5000 vols. A public library maintained in connexion with the Univ. contains over 100,000 vols. and is rich in MSS. and rare editions of great historical interest. **MUSEUMS**: Nat. Hist. and Archæol. **OBSERVATORY**, full meteorol. equipment and seismograph. **BOTANICAL GARDEN**. **HOSPITALS**, available for Clinics: general (300 beds) and several special; Leper Asylum (100); lunatic (800); aged poor (800).

**FACULTIES**: Literature, Science, Engineering and Architecture, Theology, Law, Medicine.

**MATRICULATION** involves passing an examn. in 5 subjects, including English, Italian, Maths., and, except for Engineering courses, Latin; for Med. students proposing to register in England, 6 subjects, including also Hist.

**DEGREES, ETC.** B.A., B.Sc., B.E. and A., M.D., LL.D., D.D., B.L. Can. Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Midwife.

**SCHOLARSHIPS FOR GRADUATES.** £120, one each in Theol., Law, Engin., and Med. (Travelling Scholps.). £50, one each in Theol., Law, Med. One of £120 awarded every 6 years in the faculty of Med.

## THE YEAR 1928-9

**NEW BUILDINGS.** A new laboratory for Physics completed in 1928.

**NEW DEPARTMENTS AND POSTS.** Lectureship on Venerology and Dermatology with relative clinic.

**STUDENTS.** Full-time, 120.

**DEGREES.** B.A., 2; B.Sc., 14; M.D., 12; LL.D., 3; D.D., 2; B.L. Can., 2.

## THE UNIVERSITIES OF INDIA

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the Univ. The London Univ., at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship—was taken as a model. "It had been suggested, in London, by conditions which resembled those of Bengal. . . . Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work" (*Report of the Calcutta Univ. Commission, 1917-19*). In pursuance of this policy, Univs. were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Univs. should have no teaching functions, but in point of fact they have until recently concerned themselves solely with examinations. In 1882 and 1887 the Univs. of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Univs. Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Univs., their assumption of teaching functions, and more effective supervision by them of the Colleges, as well as more exacting conditions of affiliation. Univ. Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Univs., but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Univs. were established in 1916 and 1917. The Osmania Univ., Hyderabad, Deccan, was also established in 1917, though actual tuition began in Aug. 1919.

The foundation, structure, aims and efficiency in working of institutions for higher education in India have been subjected to exhaustive re-examination by the Calcutta Univ. Commission, 1917-19. In the Univ. of Calcutta itself but little progress has been made towards giving effect to the far-reaching and fundamental changes recommended by this body, but their recommendations have to a great extent determined the lines on which were established in 1920 and the two following years the unitary, teaching, and residential Univs. of Aligarh, Dacca, Delhi, Lucknow, Rangoon, and on which the Univ. of

Allahabad was reorganized in 1921. The Nagpur Univ. was established by legislation in 1923, and in the same year the Univ. of Madras was reorganized on lines somewhat similar to those of the Univ. of Allahabad. Recently the constitution of the Rangoon Univ. has been somewhat altered by an Act of the provincial legislature. In 1926 Acts of the United Provinces and Madras Legislative Councils provided for the establishment of affiliating Universities at Agra and at Bezwada (the Andhra University). These Univs. are now established; and the headquarters of Andhra Univ. have been moved to Vizagapatam. Bombay Univ. was reorganized in 1928, but the new Act has not yet come into force. The report of the Bombay Univ. Reform Committee (published 1925) recommends the establishment of a Univ. at Poona. The latest addition to the universities of India is the Annamalai University of Annamalainagar in Southern India, established by an Act of the Madras legislature, and made possible by the princely generosity of the Hon. Raja Sir Annamalai Chettiar.

CONSTITUTION. (a) The Univs. of Calcutta, Bombay, and the Panjab are still governed by the constitution framed under the Act of 1904. The Senate, comprising the (official) Chancellor, the Vice-Chancellor, and Fellows, constitute the Body Corporate of the Univ., the executive government being vested in a Syndicate of from 9 to 17 members, including the Vice-Chancellor and Director(s) of Public Instruction, and members (largely College teachers) elected by the Senate or the Faculties. The constitution and abolition of Faculties rests with the Senate. The Academic Council recently instituted by the Panjab Univ. has been invested with important powers subject to the general control of the Senate; the revision of the Constitution of the Senate and the Syndicate is, at present, engaging the attention of the governing authorities. In its application to Calcutta the Act of 1904 is modified by Act VII. of 1921.

(b) The new Univs. have a constitution modelled generally on that recommended for Calcutta by the Calcutta Univ. Commission:—(1) A large body called the Court, on which are represented the chief interests of the community either by election or by nomination, and including a number of *ex-officio* members, makes statutes and makes recommendations on the financial accounts and the annual report submitted by the Executive Council; (2) the Executive Council of some 15-20 members, elected partly by the Court, partly by the Academic Council, and including *ex-officio* members, is the executive authority in regard to finance and University appointments, and exercises all residual powers; (3) the Academic Council, which consists almost entirely of University teachers, is responsible for the regulation and maintenance of standards of education and examination within the Univ., and for the initiation of all changes in academic matters. The executive officers of the new Univs. are, as under the older constitution, the Chancellor, the Vice-Chancellor, and the Registrar, but the Governor-General is now introduced as the Visitor or Lord Rector, with powers of inspection. At Rangoon the three constituent bodies above mentioned are named (1) Council, (2) Executive Committee, and (3) Senate.

**ADMISSION TO THE UNIVERSITIES.** Most of the Indian Univs. admit students who have passed the Final Examn. of the High Schools, and 4 years are spent at a College affiliated to the Univ. before the student is qualified to sit for the Bachelor's Degree Examn., namely, 2 years before the Intermediate Examn. and 2 after. The Univs. of Allahabad, Aligarh, Dacca, Lucknow, and Agra regard the pre-Intermediate years not as part of, but as preliminary to, University study.

Applications for **AFFILIATION** are submitted by the Syndicate, if satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of fees, etc., to Government. If granted, the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections. In Calcutta and Panjab Univs. affiliation questions are dealt with by the Senate.

**TERMS.** Univ. examns. are, with few exceptions, held between March and June. Admissions are made as a rule in June or July, though in many cases regular work does not commence till Sept. or Oct.

**DEGREE COURSES.** In *Arts and Science* a 2 yrs.' course leading to an Intermediate examn. is followed by a further 2 yrs.' course for the Degree. English is a compulsory subject, except in the B.A. course at Lucknow and in the B.Sc. course of Lucknow, Allahabad, Bombay, Calcutta, and Patna. All., Lucknow, Madras, and Panjab Univs. give Honours degrees (All. in Science, Lucknow, Madras, and Panjab in Arts and in Science) requiring an additional year of study. The Intermed. Courses are under the control of the Univs. except at Dacca, Allahabad, Agra, and Lucknow, where they are controlled by Boards of Intermed. Educn.

**Commerce.** The B.Com. course covers ordinarily 2 yrs. after passing the Intermediate examn. in Arts.

**Law.** The LL.B. (or B.L.) course covers 2 yrs. (Calc.—ordinarily 3 yrs.) after graduating in Arts or Science.

**Medicine.** The M.B. and B.S. course covers 5 yrs. (Bom.—4½ yrs., Calc. and Rangoon—6 yrs.), starting from the Intermediate examn. in Arts or Science (Calc.—in Science). L.M. and S. course (Rangoon), 5 yrs.

**Teaching.** The B.T. (All. and Mad.—L.T.) courses cover 1 yr. after graduation in Arts or Science. Calc. gives a L.T., obtainable by 2 yrs. of study after passing the Intermed. examn. in Arts or Sc. Bombay requires either 3 yrs.' experience or 2 terms at a Training College after graduation, *plus* 1 yr.'s experience thereafter; Patna, 1 yr. of study 2 yrs. after passing the Intermed. examn. in Arts or Science. The Lucknow Diploma in Teaching, for women only, requires a 1 yr.'s course after graduation in Arts or Science, as does the Rangoon diploma.

**Engineering.** For the B.E., Bombay gives a 3 yrs.', Benares, Calcutta, Madras, Mysore, Patna, and Rangoon (post-intermediate) a 4 yrs.', course.

**HIGHER DEGREES.** The M.A. or M.Sc. can be taken by bachelors of 2 yrs.' standing; the M.Sc. Mad. by B.Sc. (Hons.) of 1 yr.'s standing; the Ph.D. Mad. by B.A. (Hons.) or M.A. of 3 yrs.' standing; the D.Litt. of All. and Ph.D. of Calc. by M.A. of 3 yrs.' standing; the D.Lit. or D.Sc. of Panj. by M.A. or M.Sc. after 2 yrs. of further advanced study; the D.Sc. of All. by M.Sc. of 3 yrs.' standing; the D.Sc. of Calc. or Mad. by M.Sc. of 3 yrs.' standing. A degree of M.Com. of Bombay can be taken by B.Com. of 2 yrs.' standing. The examination for the Bombay diploma in Ophthalmology may be taken by L.M. and S. or M.B., B.S. of 1 yr.'s standing.

The LL.M. of All. and Bom., the M.L. of Mad., and the LL.M. of Panj. may be taken by LL.B. or B.L. of 2 yrs.' standing, the M.L. of Calc. or Patna at any time after taking the B.L., the LL.M. of Delhi by LL.B. of 3 yrs.' standing. The LL.D. (or D.L.) is open to LL.M. (or M.L.) after 5 yrs. (Calc. 1 yr.) of practice.

The M.D. (and in Calc. M.O.) can be taken by medical graduates after experience (Luck. and Panj. 4 yrs., Calc. and Mad. 3 yrs., Bom. 5 yrs.) in the practice of their profession or hospital practice (Luck. and Panj. 2 or 3 yrs., Mad. and Calc. 1 or 2 yrs., Bom. 1 or 2 yrs., in addition to professional practice). The M.S. qualifications are similar, but in Calcutta both hosp. and professional practice are required.

**STATUS OF THE NEW UNIVERSITIES.** The Univs. of Aligarh, Benares, Dacca, Delhi, and Patna have been incorporated by Acts of the Indian Legislature, and those of Annamalai, Andhra, Agra, Lucknow, and Rangoon by Acts of provincial legislatures. Their degrees and examns. are recognized by the Govt. of India to be equal in value to those of the older Univs. for the purpose of admission to public services.

Mysore and Osmania were established by local legislation in Indian States, and are not within the jurisdiction of the Govt. of India. The degrees of Mysore have been recognized by the Univs. of Bombay, Calcutta, the Panjab, and Madras, and most of the new Universities, and by the Govt. of India. Osmania and Mysore degrees have been recognized by the Govt. of India as equivalent to those of the Univs. established by law in India.

Professor Karve's scheme for an Indian Univ. for women with headquarters at Poona has organized there, and, through affiliated institutions, elsewhere, instruction through the Indian vernacular languages adapted to the special needs of women. It is on entirely independent lines.

**NUMBER OF STUDENTS** in March 1927 in the 307 Arts and Professional (including 96 Intermediate and 2nd Grade) Colleges was 90,676, including 2451 women.

**RESIDENCE.** In 1926-27 some 30,580 students (including 887 women) of Arts and Professional Colleges were accommodated in approved hostels or boarding-houses. In 1927-28 the number was 31,123 (including 951 women).

**CONFERENCES.** In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Assocn. of Indian Univs.

The project was further advanced at the Congress of Universities of the British Empire at Oxford in July 1921, and at a Conference of Indian Universities held at Simla in May 1924. In accordance with a resolution passed by the Simla Conference, an INTER-UNIVERSITY BOARD has been formed whose present headquarters are at Cawnpore, the Secretary of the Board being P. Seshadri, M.A., Principal and Prof. of English, Sanatana Dharma College, Cawnpore. The chairman for the year is Prof. A. C. Woolner, C.I.E., Dean of Univ. Instructn., Lahore. The Inter-Univ. Board meets annually at some Univ. centre. Another conference of Indian Univs., on the lines of the conference held in Simla in 1924, was held in Delhi in the autumn of 1929. His Excellency the Viceroy opened the Conference. The Board publishes a Handbook of Indian Univs.

The VICEROY'S GOLD MEDAL, instituted in 1926 by Lord Irwin, is open for competition, annually, to undergraduates of any Univ. incorporated by law in British India. It is awarded for the best essay on some practical problem of the day.

INDIAN STUDENTS AT THE HOME UNIVERSITIES. The Education Department of the Office of the High Commissioner for India, 42 Grosvenor Gardens, London, S.W.1, of which Mr. Thos. Quayle, D.Lit., M.A., Assist. Sec. to the High Commissioner is head, furnishes information and advice on educational and kindred matters to Indian students who come to this country to complete or supplement their education. The Hostel at 21 Cromwell Road, South Kensington, S.W. 7, serves as a centre and meeting-place for Indian students and as a temporary residence for new arrivals. There are Local Advisers at the University of Manchester (J. K. Wood, D.Sc., College of Technology, Whitworth Street), and at Glasgow (R. M. Brown, Ph.D., B.Sc., M.I.M.E., Engineering Department, The University). At Edinburgh, J. E. Mackenzie, Ph.D., D.Sc. (King's Buildings, the University), is the University's Adviser to Indian students. At Oxford Indian students may secure information and advice from H. S. Williamson, M.A., Indian Institute, Broad Street, Secretary to the Delegacy for Oriental Students, and at Cambridge, from R. B. Whitehead, M.A., 22 Fitzwilliam Street, Secretary to the Inter-Collegiate Indian Students Committee.

Indian students who propose to proceed abroad for further study are strongly advised to consult the University Bureau or Advisory Committee of their Province, from whom they can obtain full information about British and foreign universities. The names and addresses of the secretaries are as follows: Ajmere—R. Littlehailes, C.I.E., M.A., Superintendent of Education, Delhi and Ajmere-Merwara, and Secretary, Indian Students' Advisory Board, Rajputana, Delhi; Allahabad—P. N. Saprú, M.A., LL.B., Barr.-at-Law, Indian Students' Advisory Committee, The University, Allahabad; Bombay—D. J. Wadia, Univ. Information Bureau, University Building, Fort, Bombay; Calcutta—Prof. S. N. Das Gupta, M.A., Ph.D., Univ. Students' Information Bureau, The University, Calcutta; Dacca—M. Hasan, M.A. (Cal.), B.A. (Oxon), Univ. Students' Information Bureau, Dacca, Bengal; Delhi—S. N. Mukarji, M.A., Indian Students' Advisory Committee,

St. Stephen's College, Delhi ; Gauhati—J. Borooah, Barr.-at-Law, Indian Students' Advisory Committee, Gauhati, Assam ; Lahore—M. G. Singh, M.A., Punjab University Foreign Information Bureau, Lahore ; Madras—S. J. Theodore, M.A., B.Litt., B.D., Univ. Students' Information Bureau, College House, Esplanade, Madras ; Mysore—Prof. J. C. Rollo, M.A., Univ. Students' Information Bureau, University of Mysore ; Nagpur—Umawar Misra, M.A., LL.B., Univ. Information Bureau, Nagpur University, Nagpur ; Patna—Sri Narayanan Sahay, B.A., Barr.-at-Law, Univ. Students' Information Bureau, Patna, Bihar and Orissa.

The High Commissioner for India is prepared at the request of parents and guardians in India to make arrangements for the education in Europe of a limited number of Indian students, for the supervision of their studies and personal welfare, and the administration of funds remitted to him for the purpose. The Secretary to the Oriental Delegacy at Oxford, the Secretary to the Inter-Collegiate Indian Students Committee at Cambridge, the University Adviser at Edinburgh, and the Local Adviser to Indian Students at Manchester and Glasgow, act on behalf of the High Commissioner in the case of students proposing to study at those centres. Inquiries may be addressed either direct to the addresses given above or through the Office of the High Commissioner for India, Education Department. The Department publishes annually the *Handbook for Indian Students—a Guide to the Facilities for University and Professional Studies and Training in the United Kingdom*. An annual report on the work of the Department is also published, copies of which can be obtained from the office of the High Commissioner or through the agents for the sale of Government of India publications.

The Hyderabad Government has a Scholarship Committee to regulate the grant of scholarships and give necessary information to students proceeding out of India, and has a special paid guardian for Hyderabad students (E. A. Seaton, Tyrrell's Wood, Leatherhead, Surrey) to look after and report about their progress whilst in Europe.

# AGRA UNIVERSITY

VISITOR—THE GOVERNOR-GENERAL.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES.

VICE-CHANCELLOR—The Hon. NARAYAN PRAXID ASTHANĀ, M.A.,  
LL.B., Adv. High Court, Allahabad.

REGISTRAR—PANDIT S. S. SHARMA, M.A.

Act VIII. of 1926 of the United Provinces Legislature, which received the assent of the Governor-General on Oct. 20, 1926, provides for the establishment of a university "for the purpose of affiliating the colleges associated with the University of Allahabad . . ." so as to set it free to function as a unitary, teaching, and residential institution. It empowers the Agra University to affiliate colleges in the United Provinces, Rajputana, Central India, and Gwalior, except within the limits of the Universities of Allahabad and Lucknow, or within a radius of ten miles from the Benares Hindu University or from the Aligarh Muslim University. To supplement the work in affiliated colleges the University may institute teaching posts at selected centres.

Four categories of persons are to be eligible, subject to prescribed conditions, for degrees and other academic distinctions: (a) candidates who pass the University's examinations after pursuing an approved course at an affiliated college; (b) teachers who pass the University's examinations; (c) research workers; (d) women who have carried on private study. Lectures and instruction may be provided by the University for, and diplomas may be granted to, persons other than students of an affiliated college.

The supreme governing body of the University is the Senate, the other principal authorities being the Executive Council, Academic Board, Board of Inspection, and Faculties of Arts, Science, Law, and Commerce. The Vice-Chancellor, an honorary officer elected by the Senate, is the principal executive and academic officer.

Students are not eligible for admission to a degree course unless they have passed the Intermediate Examination of the Board of High School and Intermediate Education of the United Provinces, or of an Indian University incorporated by law, or an equivalent examination.

The Act came into force on July 1, 1927, and all the constituent bodies of the Univ. have been formed. The Univ. held its first exams. in 1928.

The following 14 Colleges hitherto associated with the Univ. of Allahabad have now been affiliated to Agra.

## AFFILIATED COLLEGES

[M.A., etc., after name of College = teaching up to M.A., etc., standard.]

AGRA COLLEGE. M.A.; M.Sc.; LL.B. Principal and Prof. of *English Lit.*—F. J. Fielden, M.A. Camb. and Lond.

AGRA, *St. John's College*. M.A., in all subjects; B.Com.; M.Sc. in Maths., Physics, Chem., Botany, and Zoology. Under the general control of the Church Missionary Society. Admits non-Christians, but is especially for Christians. Principal—W. E. S. Holland, M.A. Ox. Vice-Principal and Prof. of Philos. and Logic—T. D. Sully, B.A. Ox.

AJMER, *Govt. College*. B.A. ; B.Sc. in Maths., Physics, and Chem. Principal—A. Miller, M.A. St. And.

BAREILLY COLLEGE. B.A. and B.Sc. Principal—W. Owens, M.B.E., M.A. Vice-Principal—A. C. Dutt, M.A. All., M.A. Luck., M.R.A.S. Lond.

CAWNPORE, *Christ Church College*. M.A., B.A. Principal—S. C. Chatterji, M.A.

CAWNPORE, *Dayanand Anglo-Vedic College*. M.A., B.Sc., LL.B., B.Com. Principal—L. Diwan Chand, M.A.

CAWNPORE, *Sanatan Dharma College of Commerce*. M.A., B.Com., LL.B. Principal—P. Seshadri, M.A.

GORAKHPUR, *St. Andrew's College*. B.A. Principal—A. C. Pelly, M.A. Camb.

GWALIOR, *Victoria College*. M.A., B.A. ; B.Sc. Entirely supported by the State. Principal—H. M. Bull, M.A. Camb. Vice-Principal—H. F. Manley, M.A. Camb.

INDORE, *Christian College*. M.A. in Philos. Principal—R. A. King, M.A. Mani., B.D. Edin., D.D. Tor.

INDORE, *Holkar College*. M.A., ; M.Sc. ; LL.B. Maintained by the State. Principal—P. Basu, M.A., Ph.D., B.L. Vice-Principal—C. A. Dobson, B.A. All.

JAIPUR, *Maharaja's College*. M.A. ; B.Sc. Maintained by the State. Principal—P. L. Mathur, M.A. Vice-Principal—Nalininath Roy, M.A. Cal.

JODHPUR, *Jaswant College*. B.A. Principal—A. P. Cox, M.A., I.E.S. Vice-Principal—P. P. Shahani, M.A. Bom.

MEERUT COLLEGE. M.A. ; B.Sc. ; LL.B. Principal—Lt.-Col. T. F. O'Donnell, B.A. R.U.I.

## THE YEAR 1928-29

RESIGNATION. Rev. Canon A. W. Davies, M.A., Vice-Chancellor.

HONORARY DEGREE. *D.Lit.*—Rev. Canon A. W. Davies.

STUDENTS. Full-time, 2343, including 380 graduates. Part-time, none.

DEGREES. B.A., 465 ; M.A., 120 ; B.Sc., 112 ; M.Sc., 14 ; LL.B., 144 ; B.Com., 58.

# ALIGARH MUSLIM UNIVERSITY

LORD RECTOR—H.E. THE GOVERNOR OF INDIA IN COUNCIL.

CHANCELLOR—HER HIGHNESS NAWAB SULTAN JEHAN BEGUM OF BHOPAL, G.C.S.I., G.C.I.E., C.I., G.B.E.

PRO-CHANCELLOR—HIS HIGHNESS AGA SIR SULTAN MOHAMED SHAH AGA KHAN, G.C.S.I., G.C.I.E.

VICE-CHANCELLOR—NAWAB MASUD JANG BAHADUR DR. SYED ROSS MASUD, B.A., LL.D., Barr.-at-Law.

PRO-VICE-CHANCELLOR—E. A. HORNE, M.A., I.E.S.

TREASURER—SHAIKH ABDULLAH, B.A., LL.B., M.L.C.

REGISTRAR—FAKHR UDDIN AHMAD, M.A., B.E.S.

LIBRARIAN—MOHAMED HABIB, B.A. Ox., Barr.-at-Law.

## TEACHING STAFF

### *Arabic*

Tritton, A. S., M.A. Ox., D.Litt.  
Edin. Prof.\*  
Memon, Abdul Aziz Reader.  
Ali, Abid Ahmad, M.A., LL.B.

Lectr.

### *Botany*

Hyder, Asghar Ali, B.Sc., Ph.D.  
Rafiq Ahmad, M.Sc. Lectr.  
2 Demrs.

[Reader.\*]

### *Chemistry*

Haider, M., M.A. Camb., B.A. All.,  
B.Sc. Lond., Barr.-at-Law  
Mansuri, Q. Ali, M.A. M.Sc. Camb.,  
Ph.D. Gött. Prof.\*  
Bakhsh, A., M.A., B.Sc. All.  
Reader.

Abdul Aziz, B.Sc. All.  
Lectr. (Applied Chem.).  
Ali, B., B.Sc. All., M.Sc. Lectr.  
2 Demrs.

### *Economics*

Hyder, L. K., B.A. All. and  
Camb., Ph.D. Heid., M.L.A.

[Prof.\*]

Ahmad Mukhtar, M.A. Panj. and  
Alig. Lectr.  
Shafi, S. M., B.Sc. Lond., Barr.-at-  
Law Reader.  
Uddin, S. M., M.A. Lectr.

### *Education*

..... Prof.  
Saiyidain, Ghulam, M.Ed. Leeds,  
B.A. Reader.\*  
Rahman, Habibur, M.A., L.T.  
All. Lectr.  
Husain, Tajammul, B.T. Panj.,  
M.A. Lectr.  
Siddiqi, W. H., B.A., L.T. Lectr.  
Hashmi, B. A., M.A., M.Ed.  
Lectr.

### *English*

Firebrace, R., M.A. Ox. Prof.\*  
Inamullah-Khan, M.A. Calc.  
Reader.  
Abdur-Rasid, Pirzada, M.A. Panj.  
Lectr.  
Husain, Syed M., M.A. Lectr.  
Hamid Ali, M., M.A. Lectr.  
Sarwar, G., M.A. Panj. Lectr.

\* Chairman of Dept.

<i>Geography</i>		[Prof.*	<i>Philosophy</i>	
Dann, E. W., M.A. Ox., F.R.G.S.			Sharif, M. M., B.A. Camb.	Prof.
Ahmad, Q. Saiduddin, M.A., LL.B.			Zafar-ul-Hasan, Syed, M.A. All.,	
		Lectr.	Ph.D. Camb. and Erlangen,	
1 Demr.			D.Phil.	Prof.*
<i>History and Polit. Sc.</i>			Bharat Ram, M.A., LL.B.	Lectr.
Haleem, A. B. A., B.A. Ox.	Prof.*		<i>Physics</i>	
Habib, Mohd., B.A. Ox.	Prof.		.....	Prof.
Jalaluddin, K. M.	Lectr.		Murad, F. D., B.A., M.Sc. Panj.	
Ali, N., M.A. All.	Lectr.			Reader.*
<i>Law</i>			Abdul Jalil, Syed, M.Sc. All.	
Ali Naqi, Syed, B.A.	Reader.			Lectr.
Khalil, Abdul, B.A., LL.B.			.....	Lectr.
	Reader.*		1 Demr.	
Ishaq, M., B.A. Camb., Barr.-at-Law	Lectr.		<i>Theology</i>	
Khan, Wilayat Ahmad, M.A., LL.B.	Lectr.		Abu Bakr, Md. M. Shis	
<i>Mathematics</i>				Dean Sunni.
	Prof.		Yusuf Husain, Nawfi M.	
	Reader.			Dean Shia.
Faruq, M., M.Sc. All.	Lectr.		Ashraf, Suleiman Haji (Islamic Studies and Sunni Theol.)	
Osman, H. M., M.A.	Lectr.			Reader.
<i>Medicine and Surgery (Unani)</i>			Husain Faruqi, A.	
1 Reader.				Lectr. (Sunni Theol.).
2 Lectrs.			<i>Sanskrit</i>	
1 Demr.				[Hon. Reader.*
<i>Persian</i>			Sarup Shastri, Pandit Ram	
Hamid-uddin-Khan Haji, M.A. All.	Reader.*		<i>Urdu</i>	
Hasan, Syed H., B.A. Camb., B.Sc.	Prof.		.....	Reader.*
Siddiqi, R. A., M.A. All.	Lectr.		Siddiqi, R. A., M.A. All.	Lectr.
			<i>Zoology, v. also Botany</i>	
			.....	Reader.
			Mohammad Sharif, M.Sc.	Lectr.
			Ali, E., M.Sc.	Lectr.
			1 Demr.	

\* Chairman of Dept.

## GENERAL INFORMATION

The Mahomedan Anglo-Oriental College, founded in 1875, became, under the Aligarh Muslim University Act of 1920, a unitary residential University, with Univ. School and Intermediate College attached as separate institutions. The Univ. receives Rs. 1,25,000 annually from the Govt. of India, Rs. 1,52,012 from the Local Govt., Rs. 37,000 from the Nizam of Hyderabad, and contributions from other Indian States. Although the governing body is composed of Mahomedans, and special attention is paid to Muslim Theology, it is open to all, without distinction of sex, race, creed, or class. In the grounds, comprising several square miles, are halls and hostels sufficient for the accommodation of all the students and some of the staff. LIBRARY, 28,000 vols., besides a collection of MSS. on Oriental Lit. LABORATORIES: Physics, Chem., Botany and Zoology.

The INTERMEDIATE COLLEGE prepares for the High School and Intermediate Examns., the latter being the admission examn. for the Univ. The Muslim UNIV. SCHOOL is a feeder to the Intermediate College and a practising school for the TRAINING COLLEGE.

**COURSES.** For students who have passed the Intermediate examn. of an Indian Univ. : two-year courses for the B.A. or B.Sc. ordinary and 3 yrs. for B.A. or B.Sc. with honours One yr. for Teaching Certificate. Courses leading to M.A., M.Sc., LL.B., and B.T. degrees are also provided. **FEES :** for Tuition, Rs. 8 to Rs. 15 p.m. ; Board and residence about Rs. 20 p.m.

**NUMEROUS SCHOLARSHIPS FOR GRADUATES**, enabling them to proceed to higher degrees, are awarded. One of Rs. 75 per month for research in Arabic, open to M.A. Two fellowships, Rs. 75 p.m. for 2 yrs., for research in Science and Arts respectively. There is a loan fund for helping poor students.

## THE YEAR 1928-29

**BENEFACTIONS.** Rs. 71,462 from Govt. for construction of a Hostel for the M.U. Intermediate College. Paintings from Prof. Moinuddin of Wilson College, Bombay, for the Art Gallery built at his cost.

**NEW BUILDINGS.** Five new hostels, new School building and Art gallery.

**NEW DEPARTMENTS AND POSTS.** Departments of Medicine and Surgery (Unani) and several posts.

**OTHER DEVELOPMENTS.** Boy Scout and University Training Corps organized.

**STUDENTS.** Full-time, 1096, including 520 graduates.

**DEGREES.** B.A., 210 ; B.A. honours, 1 ; M.A., 47 ; B.Sc., 52 ; B.Sc. honours, 5 ; M.Sc., 9 ; LL.B., 112 ; B.T., 49.

# UNIVERSITY OF ALLAHABAD

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR AND CHAIRMAN OF THE COURT AND ACADEMIC COUNCIL—Mahamahopadhyaya GANGANATHA JHA, M.A., D.Litt., LL.D., Vidya Sagar.

PROCTOR—S. K. RUDRA, M.A.

TREASURER—RAI BAHADUR PANDIT KANHAIYA LAL, M.A., LL.B.

REGISTRAR—J. M. DAVID, B.A.

LIBRARIAN—BENI PRASAD, M.A., Ph.D., D.Sc.

## PROFESSORS, LECTURERS, ETC.

### *Arabic and Persian*

Siddiqi, A., M.A., Ph.D. Prof.  
Ali Nami, Syed Mohd., M.A. Reader.

### Lectrs. :

Ali, Syed Ishaq, C.T., M.F.  
Zubaid Ahmad, M. G., M.A.  
Mohd Naimur Rahman, M.A.  
Majd Uddin, Syed, M.A.

### *Botany*

Mitter, J. H., M.A., B.Sc. Panj., Ph.D. Camb. Reader.  
Ranjan, S., M.Sc. Camb. Reader.  
Saksena, R. K., M.Sc. Lectr.  
Srivastana, G. D., M.Sc. Lectr.  
1 part-time teacher.  
2 Demrs.

### *Chemistry*

Dhar, N. R., M.Sc. Calc., D.Sc. Lond., I.E.S. Prof.  
Deb, S. C., M.A. Reader.  
Charterji, K. P., M.Sc. Reader.  
Dutt, S. B., D.Sc. Lond. Reader.  
Taimini, I. K., M.Sc. Lectr.  
5 Demrs.

### *Commerce*

Ghosh, M. K., M.A., B.Com. Lond. Reader.  
Chowdhury, R. C., M.Sc. Lectr.

Dubey, R. N., B.Com. Lectr.  
Sapru, P. N., M.A., LL.B., Barr-at-Law  
Hon. Teacher (Admin.).

### *Economics*

Thompson, C. D., M.A. Reader.  
Rudra, S. K., M.A. Camb. Reader.  
Karwal, G. D., M.A. Panj. Lectr.  
Bhatnagar, B. G., M.A. Lectr.  
Jain, L. C., M.A., LL.B., Ph.D. Lectr.  
Dubey, Daya Shankar, M.A., LL.B. Lectr.  
Mehta, J. K., M.A. Lectr.  
Uthap, Miss M., M.A. Lectr.

### *English*

[Prof.]  
Dunn, S. G., M.A. Ox., I.E.S.  
Jha, A. N., M.A. Reader.  
Pande, S. A., M.A., LL.B. Reader.  
Deb, S. C., M.A. Reader.  
Ojha, Damri, M.A., LL.B. Lectr.  
Sircar, K. M., M.A., M.Sc. Lectr.  
Misra, S. N., M.A., LL.B. Lectr.  
Gupta, L. D., M.A. Lectr.  
Dastur, P. E., M.A. Lectr.  
Mehrotra, K. K., M.A. Lectr.  
Bhandarkar, Miss V., M.A. Lectr.  
1 part-time teacher.

<i>Hindi</i>		Mukerji, A. C., M.A.	Reader.
Varma, D., M.A.	Lectr.	Mukerji, N. C., M.A.	Lectr.
Shukla, D. P., B.A.	Lectr.	Kaul, R. N., M.A.	Lectr.
1 part-time teacher.		Haldar, Miss A. L., M.A.	Lectr.
<i>History</i>		<i>Physics</i> [Prof.]	
Khan, S. A., M.A., Litt.D.	Prof.	Saha, M. N., D.Sc. Calc., F.R.S.	
Tripathi, R. P., M.A., D.Sc.		Bhargava, S. R., M.Sc.	Reader.
	Reader.	Ghosh, R. N., D.Sc.	Lectr.
Prasad, Ishwari, M.A., LL.B.,		Deodhar, G. B., M.Sc.	Lectr.
D.Litt.	Reader.	4 Demrs.	
Parmanand, M.A.	Lectr.	<i>Political Science</i>	
Saxena, B. P., M.A.	Lectr.	Prasad, Beni, M.A., Ph.D., D.Sc.	
Prasad, Bisheshwar, M.A.	Lectr.		Reader.
Chatterji, G. S., M.A.	Lectr.	Ahmad, I., M.A.	Lectr.
Seth, Miss S., M.A.	Lectr.	1 part-time teacher.	
<i>Law</i>		<i>Sanskrit</i>	
Weir, J. C., B.A., LL.D. Dub.,		Acharya, P. K., M.A. Calc., Ph.D.,	
Barr.-at-Law, K.C.	Prof.	D.Litt. Lond., I.E.S.	Prof.
Chaudhri, S. C., M.A. Calc., LL.B.		Saksena, B. R., M.A.	Lectr.
	Reader.	Misra, Umesh, M.A.	Lectr.
Jung, M. U. S., M.A., LL.D., Barr.-		Chatterji, K. C., M.A.	Lectr.
at-Law	Reader.	Shastri, R. M., M.A., M.O.L.	
1 part-time teacher.			Lectr.
<i>Mathematics</i>		Herlekar, Miss M. N., M.A.	Lectr.
Banerji, A. C., M.Sc. Calc., M.A.		<i>Urdu</i>	
Camb., I.E.S.	Reader.	Zamin Ali, Syed, M.A.	Lectr.
Prasad, Gorakh, D.Sc. Edin.		Syed, M. H., B.A., L.T.	Lectr.
	Reader.	<i>Zoology</i> [Reader.]	
Srivastava, P. L., M.A., Ph.D.		Bhattacharya, D. R., Ph.D., D.Sc.	
	Lectr.	Mehra, H. R., Ph.D. Camb.	
Prasad, Badri Nath, M.Sc.	Lectr.		Reader.
Tiwari, S. G., M.A.	Lectr.	Das, R. S., M.Sc.	Lectr.
Piari Mohan, M.Sc.	Lectr.	Varma, S. C., M.Sc.	Lectr.
<i>Philosophy</i>		Datta, S. K., M.Sc.	Lectr.
Ranade, R. D., M.A.	Prof.	2 Demrs.	

## COLLEGES OF THE UNIVERSITY

EWING CHRISTIAN COLLEGE, Allahabad (American Presbyterian Mission).  
Acting-Principal—W. Dudgeon, Ph.D. Chicago. 17 Tutors.

KAYASTHA PATHSHALA UNIVERSITY COLLEGE, Allahabad. Principal—  
Tara Chand, M.A., D.Phil. Ox. 5 Tutors.

CROSTHWAITE GIRLS' COLLEGE, Allahabad. Lady Principal—Miss C. R.  
Poovaiah, M.A. 1 Tutor.

## GENERAL INFORMATION

Founded in 1887, the Univ. concerned itself mainly with examinations,  
having no teaching staff (except that of its School of Law) until 1914. There-

after it established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students. In Jan. 1922 was passed an Act (which came into operation in July 1922) for the reorganization of the Univ. as a unitary, teaching, and residential institution, with control, however, over the quality and character of the teaching in "Associated" colleges. In 1926 was passed the Agra University Act, providing for the transfer of the control of these colleges to the Agra Univ. The Univ. now functions as a purely unitary, teaching, and residential Univ.

**LIBRARY**, 72,551 vols. A section of coins has been added to the Library. **MUSEUMS** in connexion with Econ. and Com. Depts.

**FACULTIES.** Arts, Science, Law and Commerce.

**DEGREES, ETC.** B.A., B.A. Hons., M.A., D.Litt. ; B.Sc., B.Sc. Hons., M.Sc., D.Sc. ; LL.B., LL.M., LL.D. ; D.Litt. (Econ.) ; B.Com.

The *courses* of study in the Univ. for the bachelor's degree cover 2 (B.A. and B.Sc. Hons.—3) years, following upon an examn. of "Intermediate" standard, equivalent to the Higher School Examn. of the Univ. of Cambridge. The intermediate examns. of other Univs. incorporated by law in British India and the inter. examn. of the Mysore Univ. are recognized for the same purpose.

For admission to courses leading to higher degrees the B.A. and B.Sc. degrees of any Univ. in British territory recognized by the law of the place in which it is situated, and also of the Mysore Univ., are accepted as equivalent to Allahabad B.A. and B.Sc.

**SCHOLARSHIPS FOR GRADUATES.** 2 Emp. Vict. Research Readerships, Rs. 100 p.m. (3 yrs.), and 2 Kanta Prasad Research Scholarships for Hindus, Rs. 100 p.m. (2 yrs.), for M.Sc. ; Research Scholarships of Rs. 100 each (1 yr.) in History (2), Economics (2), Sanskrit and Hindi (2), Arabic, Persian and Urdu (2), Philos. (1), English (1), Science (5) ; several of smaller amount. There is a **SPECIAL FUND** for enabling students and staff to proceed to *Foreign Countries* for higher studies.

**PUBLICATIONS.** *Calendar*, Rs. 5 ; *Univ. Examns. Prospectus*, Re. 0.8.0. ; *Univ. Minutes*, Rs. 5 ; *University Magazine*, Rs. 2.8 p.a. ; *University Studies*, Rs. 7.8 ; *Indian Journal of Economics*, Rs. 12 p.a. ; *Annual Report*.

## THE YEAR 1928-29

**NEW BUILDINGS.** The question of constructing a separate college for girls is under consideration.

**OTHER DEVELOPMENTS.** The question of recognition of the Degree classes in Agric. of the Agricult. Inst., Naini, is under consideration. A Drawing class for students who wish to join the Roorkee Civ. Engin. Coll. has been decided upon. The University has invited the Indian Science Congress and the Indian Econ. Assoc. to hold their next session at Allahabad.

**EXTRA-MURAL WORK.** Many popular lectures were delivered by members of the teaching staff.

**BENEFACTIONS.** Mr. Hari Keshava Ghosh, son of the late Babu Chintamani Ghosh, has donated to the University Rs. 2000, from the interest of which two gold medals, to be called "Chintamani Ghosh Medals," are to be awarded at the annual Convocation to the students, who stand first at the B.A. examination in Hindi and Urdu.

**CHANGES.** Statutes regarding the grant of gratuity to menial servants of

the University and Ordinances regarding the examination in French and German for a Certificate of Proficiency.

DEATH. Rev. Dr. C. A. R. Janvier, M.A., D.D., Principal, Ewing Christian Coll., and member of several bodies of the Univ., on November 3, 1928.

HONORARY DEGREE. *D.Sc.*—Sir Jagdish Chandra Bose.

STUDENTS. Full-time: total, 1754.

DEGREES. B.A., 206; M.A., 64; B.Sc., 84; B.Sc. Honours, 13; M.Sc., 33; D.Sc., 2; LL.B., 133; B.Com., 12.

# THE ANDHRA UNIVERSITY, BEZWADA

VISITOR—THE GOVERNOR-GENERAL.

CHANCELLOR—THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE RAJA OF JEYPORE.

VICE-CHANCELLOR—C. R. REDDY, M.A. Camb.

REGISTRAR—C. D. S. CHETTI, M.A.

## GENERAL INFORMATION

The Act of the Madras Legislative Council constituting this "University in and for the Telugu districts of the Presidency of Madras" received the assent of the Governor-General on Jan. 13, 1926, and came into force on April 26, 1926. By a later Act, the area has been narrowed down by the exclusion of certain districts, leaving the following within the affiliating jurisdiction of the Univ.: Ganjam, Vizagapatam, West Godavari, East Godavari, Kistna, Guntur, Nellore. The Act establishes four categories of colleges: "University College," providing for hons. or post-graduation courses for higher degrees; "First Grade College," providing courses for the ordinary degree in Arts or Science; "Second Grade College," preparing for the Inter. Examn.; and "Special Grade College," providing courses in Oriental langs. or in other special subjects. No "University" or "First Grade" College may be established or affiliated except in the towns of Vizagapatam, Rajahmundry, or Anantapur, or within ten miles thereof, provided that within 5 years the Univ. may affiliate as First Grade any Second Grade College existing when the Act was passed.

By amending Acts, the headquarters of the University will be shifted to Vizagapatam.

Among the powers of the University specified in the Act are: to promote the development of the study of Telugu, Kanarese, Urdu, and Oriya, and their use as media of instruction and examination; to institute professorships and other teaching posts; to maintain colleges and hostels; to erect, equip, and maintain laboratories and libraries; to institute and provide funds for the maintenance of a publication bureau, an employment bureau, students' unions, and University Extension boards. Every student of the University must reside in a hostel or under prescribed conditions.

The supreme governing body is the Senate, by which the Vice-Chancellor, a whole-time salaried officer and principal executive, is elected (for 3 years). The other principal authorities of the University are: an executive body called the Syndicate, comprising 12 members, including the Vice-Chancellor and Director of Public Instruction, the Academic Council, the Faculties and Boards of Studies.

FACULTIES. Arts, Science, Oriental Learning, Teaching, Medicine.

ADMISSION to Univ. Courses is by matriculation examn. and Secondary School leaving certificate examn., or any other examn. recognized as equivalent thereto.

DEGREES. B.A., B.A. Hons.; M.A., M.A. Hons.; B.Ed., M.Ed.; D.Litt., D.Sc., K.P., M.B.B.S., L.M.S., M.O.L.; B.Sc., B.Sc. Hons.; M.Sc., M.Sc. Hons.

DIPLOMAS: Titles (4 years' course) and Certificates of Proficiency in Oriental Learning.

The EXAMINATIONS of all Statutory Indian Univs. are recognized as equivalent to the corresponding examns. of this Univ.

PUBLICATIONS. *University Code* (Administration, Statutes, Ordinances, Regulations, and Syllabuses); *Annual Register* (University Authorities, Text Books, Affiliated and Recognized Colleges, Endowments, and Graduates); *Annual Report*; *Minutes*; *The Beginnings of Local Taxation in the Madras Presidency*, by M. Venkatarangaiya (in English) and *Lectures on Vemana*, by R. Anantakrishna Sarma (in Telugu). A Publication Bureau is in the course of formation.

COLLEGES. There are 5 first-grade colleges, 5 second-grade, 1 preparing students for a Medical Degree (M.B., B.S.), and 1 preparing for the B.Ed. In addition there are 7 Oriental colleges recognized by the Univ. for the Oriental Title Examns. and Certificates of Proficiency in Oriental learning.

## COLLEGES AFFILIATED IN DEGREE COURSES

### Arts and Science

COCANADA, *P.R. College*. Principal—V. Ramakrishna Rao, M.A., Ph.D., L.T., and 20 lecturers.

GUNTUR, *Andhra Christian College*. Principal—Rev. J. Roy Stroock, M.A., D.D., and 19 lecturers.

MASULIPATAM, *Union Noble College* (Church Miss. Soc.). Principal—Rev. A. B. Johnston, M.A., and 19 lecturers.

RAJAHMUNDRY, *Government Arts College*. Principal—W. B. Brierley, B.A., and 23 lecturers.

VIZIANAGRAM, *Maharaja's College*. Principal—K. Janaki Rao, B.A., L.T., and 28 lecturers.

### Medicine

VIZAGAPATAM, *Medical College*. Principal—Lt.-Col. F. C. Fraser, I.M.S.

### Education

RAJAHMUNDRY, *Government Training College*. Principal—M. S. H. Thompson, B.A., M.R.A.S.

## THE YEAR 1928-29

BENEFACTIONS. Rs. 11,347, making Rs. 2,90,264 to the end of 1928-29.

NEW POST. Hon. Legal Adviser.

CHANGES IN REGULATIONS. Regulations for B.Ed. and M.B., B.S. revised; new regns. for B.Sc. courses framed.

HONORARY DEGREES. *D.Lit.*—His Excellency the Right Hon. the Viscount Goschen of Hawkhurst, G.C.I.E., C.B.E. (Chancellor), Governor of Madras, and Prof. S. Radhakrishnan, M.A., George V. Prof. of Philosophy, President, Post-Graduate Council of Arts, Calcutta University.

STUDENTS. Full-time: total, 801.

DEGREES. B.A., 305; B.Ed., 28; M.B., B.S., 5; L.M.S., 4; Titles in Oriental Learning, 21.

## BENARES HINDU UNIVERSITY

LORD RECTOR—THE GOVERNOR-GENERAL OF INDIA, *ex officio*.

VISITOR—THE GOVERNOR OF THE UNITED PROVINCES, *ex officio*.

CHANCELLOR—THE MAHARAJAH OF BIKANIR.

PRO-CHANCELLOR—THE MAHARAJAH OF BENARES.

VICE-CHANCELLOR—Pandit MADAN MOHAN MALAVIYA, B.A., LL.B.

PRO-VICE-CHANCELLOR AND SECRETARY OF THE COURT AND THE COUNCIL—Principal A. B. DHURVA, M.A., LL.B.

TREASURER—Hon. RAJA MOTI CHAND SAHEB, C.I.E.

REGISTRAR—Professor INDRADEVA TIWARY, M.A.

On April 1, 1916, a teaching and residential Hindu University was incorporated "for the purposes, among others, of making provision for imparting education, literary, artistic, and scientific, as well as agricultural, technical, commercial, and professional, of furthering the prosecution of original research, and of giving instruction in Hindu theology and religion, and of promoting the study of literature, art, philosophy, history, medicine, and science, and of imparting physical and moral training."

The University began to function on Oct. 1, 1917, when it became responsible for the maintenance of the Central Hindu College, Benares. Colleges of Oriental Learning and Theology, and a Training College, were opened in July and Aug. 1918, a College of Engineering in 1919, a Department of Mining and Metallurgy and a Law College in 1923. The Univ.'s assets, including perpetual grants by the Govt. of India and by Ruling Chiefs of Rs. 1,00,000 and 75,000 respectively, are valued at Rs. 1,80,00,000.

Every member of the *Court*, the supreme governing body, must be a Hindu. It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus; it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members; (2) 5 members nominated by the Visitor; (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively.

LABORATORIES : Chem., Physics, Zool., Bot., Geol., Mining, and Metallurgy. The Engineering College laboratories include shop equipped for manufacturing machines, smith and paint shops, iron and brass foundry, and motor-car repair shop; a power-house is also attached to the College.

ADMISSION. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and examns., degrees, etc.

FACULTIES. Oriental Learning, Theology, Arts, Science—Pure and Applied, Law, Ayurveda.

**DEGREES.** B.A., M.A., D.Litt., B.Sc., B.Sc. in Appl. Sc. (Engin.), B.Sc. (Mining), B.Sc. (Metallurgy), M.Sc., D.Sc., Shastri, Shastracharya, Smritiratna, Smritisagara, Dharmashastri, Dharmacharya, LL.B., LL.M., LL.D., L.T. The admission qualification for Degree course (4 yrs.) in Mining or in Metallurgy is Interim Sc. examn. of an Indian Univ. or Board of Interim. Education, with Physics, Chem., and Maths.

**RESIDENCE.** Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or guardians. There are 6 hostels accommodating 1500 students and 84 residences for members of the staff.

**SCHOLARSHIPS.** 100 for Arts and Science students of merit, 20 for Teachers' Training College. Numerous other College Scholps.

## COLLEGES MAINTAINED BY THE UNIVERSITY

**CENTRAL HINDU COLLEGE.** Principal (Univ. Prof. of Sansk.)—A. B. Dhruva, M.A., LL.B. Honorary Univ. Profs.: Sir P. C. Roy, Kt., C.I.E., D.Sc. (Chem.); Nil Ratan Dhar, M.A., D.Sc. (Phys. Chem.); C. V. Raman, M.A., F.R.S. (Phys.); B. Keightley, M.A. (Philos.); N. C. Nag, M.A., F.I.C. (Chem.); V. G. Kale, M.A. (Econ.); S. Radhakrishnan, M.A. (Phil.). Others: K. K. Mathur, B.Sc. (Geol.); S. S. Bhatnagar, D.Sc. Lectrs.: *Biol.*—R. S. Inamdar, B.A. Camb.; N. K. Tewari, M.Sc.; Bholanath Singh, M.Sc.; K. Mathur, M.Sc.; K. N. Gupta, M.Sc.; R. C. Saksena, M.Sc.; S. C. Chatterjee, M.Sc.; Y. Bharadwaj, M.Sc.; K. R. Mehta, M.Sc.; A. B. Misra, M.Sc.; Chandra Bal, M.Sc. *Chem.*—M. B. Rane, M.A.; S. Prasad, M.Sc.; S. K. Basu, D.Sc.; N. N. Godbole, M.A., B.Sc.; Dongar Singh; P. S. Varma, M.Sc.; D. N. Banerji, M.Sc.; P. N. Roy, M.Sc.; A. T. Mazumdar, M.Sc.; K. C. Banerji, M.Sc.; S. S. Josti, D.Sc. *Econ.*—Pran Nath, D.Sc.; Gurmukh Singh, M.Sc.; B. K. Mazumdar, M.A.; S. Shastri, M.A. *Engl.*—W. C. Nag, Ph.D.; M. M. Desai, M.A.; J. S. Yajnic, M.A., LL.B.; S. N. Lal, M.A. *Hist.*—S. N. Bhattacharya, M.A.; K. Bhattacharya, M.A.; A. S. Altekar, M.A., LL.B.; S. V. Puntambekar, M.A. Ox.; G. P. Mehta, M.A.; J. N. Prasad, M.A., Ph.D.; R. D. Banerjee, M.A. *Maths.*—P. Prasad, M.A., B.Sc.; S. Pande, M.Sc.; D. C. Sarute, B.A. *Pers.*—Mirza M. M. Husain. *Philos.*—P. B. Adhikari, M.A.; S. K. Maitra, Ph.D.; S. N. Das; B. L. Atreya, M.A. *Phys.*—P. K. Dutt, M.A.; N. K. Sethi, D.Sc.; U. A. Asrani, M.Sc.; N. K. Pande, B.Sc.; C. M. Sogani, M.Sc.; P. C. Ghose, M.Sc.; K. L. Tewari, B.Sc. *Religion*—S. K. Joshi (also in Marathi); H. R. Pande, B.A. *Sansk.*—N. Bhattacharya, M.A.; Baldeva Upadhyaya; B. Nath, M.A. *Hindi*—S. Das, B.A.; A. S. Upadhyaya. *Bengali*—Harihar-Shastri. *Urdu*—Mahesh Prasad.

**COLLEGES OF ORIENTAL LEARNING AND THEOLOGY.** Principals: O.L.—Maha. Pandit Pramathanatha Tarkabhusana; Theol.—Pandit Vidyashar Gour. 30 other Profs.

**TEACHERS' TRAINING COLLEGE.** Principal, L. S. Jha, M.A., L.T. 5 Assts.

**ENGINEERING COLLEGE.** Principal and Prof. of Mech. E.—C. A. King, B.Sc., A.R.C.Sc., M.I.M.E., M.I.S.E. Other Profs.: J. F. Riffkin, B.Sc. Lond.; B. C. Chatterji, B.A., B.Sc., B.L., M.I.E.E.; R. S. Jain, B.Sc.; H. K. Sen, M.I.Mech.E. and Min.E. 8 Asst. Profs. and a Demr. Arrangements have been made for holding, at the College, examns. of the City and Guilds of London Institute.

**AYURVEDIC COLLEGE.** Principal, D. Das Kaviraja, and six others.

DEPARTMENT OF MINING AND METALLURGY. Head of Dept. and Univ. Prof. of Mining and Metallurgy—N. P. Gandhi, M.A., B.Sc., A.R.S.M., D.I.C., F.G.S., M.I.M.M.

LAW COLLEGE. Hon. Profs.: Sir Tej Bahadur Sapru, M.A., LL.D., K.C.S.I.; M. L. Agarwala, B.Sc., LL.D.; K. N. Katju, M.A., LL.D.; A. P. Dube, B.C.L.; Munshi M. Prasad, M.A., LL.B.; P. N. Sapru, M.A., LL.B., Barr.-at-Law; Shankar Saran, B.A. Ox., Barr.-at-Law; A. N. Sanyal, B.A., LL.B. Lond.; U. S. Bajpai; Syed Agha Haidar; P. L. Banerji; S. N. Sen; Wali Ullah, M.A., B.C.L., LL.D.; S. Subramaniam, B.A., M.L. Mad.; B. N. Vyasa, M.A., LL.B. All.

### THE YEAR 1928-29

DEGREES. B.A., 46; M.A., 44; B.Sc., 40; M.Sc., 9; B.Sc. (Min. and Met.), 4; B.E., 46; L.T., 48; Shastri, 9; Shastracharya, 18; Dharmacharya 1; D.Sc., 1; D.Litt. (Honorary), 1.

# UNIVERSITY OF BOMBAY

CHANCELLOR—THE GOVERNOR OF BOMBAY.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—MIRZA ALI  
MOHAMMED KHAN, M.A., LL.B.

REGISTRAR—KHAN BAHADUR FARDUNJI M. DASTUR, M.A., I.S.O.

## GENERAL INFORMATION

Founded in 1857, the Univ. has concerned itself mainly with examinations, and maintained no teaching staff until 1913. Since then it has provided annually lectures for post-graduate students in English, History, Economics, Sociology, Sanskrit, and Mathematics. In 1919 it established a School of Economics and Sociology for research in these subjects. Extensions to University buildings, costing Rs. 8,13,000, were completed in 1923.

**LIBRARY** (established 1864, owing to Premchund Roychund Benefaction, Rs. 4,00,000), 35,000 vols., including Fawcett Collection (Econ.).

**FACULTIES.** Arts, Science (including Agric. and Engin.), Law, Medicine.

**DEGREES.** B.A., M.A.; B.Sc., M.Sc.; B.Com., B.T., M.Com.; LL.B., LL.M.; M.B., B.S.; B.Hy., M.D., D.Hy., M.S.; B.Ag., M.Ag.; B.E. (Civ., Mech.), M.E. **DIPLOMA** in Ophthalmology (D.O.).

**RECOGNITION** of examns. of other Univs.: Interm. Arts and Sc. examns. of other Indian Univs. and London, and also B.A., B.Sc., LL.B. of some of the Indian Univs. (see *Handbook*).

**FEES** for Univ. post-grad. courses, Rs. 40 per term.

**RESIDENCE.** Board and lodging at Colleges generally from Rs. 40 to Rs. 75 p.m.

**SCHOLARSHIPS FOR GRADUATES.** In Sanskrit, Bhugwandass Purshotumdass, Rs. 720; Law, Sir Mangaldas Nathubhai, Rs. 1000 p.a. for 3 yrs.; Travelling Fellowship, Rs. 700 p.a. for 3 yrs. for Hindus; Technical educn. in England for Hindus, Rs. 2000 p.a. for 3 yrs.; Springer Research Scholp. Lectureships: Wilson Philological, Rs. 750 (6 cold weather lectures); Bhagvanlal Indraj, Rs. 1000 (6 lectures on Indian Epig., etc.); Bhimrao Ramrao Research Scholp., Rs. 2400 p.a. for 3 years. The Sir Pherozeshah M. Mehta Research Scholarship, Rs. 850 p.a. for 3 years for research in History or Economics.

Sir Currimbhoy Ebrahim endowment (3½ p.c. Govt. securities, nominal value, Rs. 10,00,000) for scholarships by way of advances (repayable) to Mahomedan students going to foreign countries for higher studies in Medicine, Philology, Ancient History, Arabic, Architecture, Town-planning, and Technological and Industrial subjects and for the superior services: Rs. 3600 p.a. for 3 yrs.

The Edaljee Dinshaw Scholarships—14 scholarships of the aggregate value of Rs. 25,000 p.a. tenable for 3 years, and open to members of the Parsi Community under certain conditions.

**INSPECTION OF COLLEGES** is conducted by means of committees, aided by an assessor from beyond the Presidency.

INSPECTION OF SCHOOLS applying for recognition for purposes of the Matriculation examn. is arranged for by the Syndicate.

PUBLICATIONS. *Handbook* (July), Rs. 2; *Calendar*, Rs. 4; *Examination Papers*, Rs. 2.

#### UNIVERSITY SCHOOL OF ECONOMICS AND SOCIOLOGY

Prof. of Economics—K. T. Shah, B.A., B.Sc. Lond. Prof.—C. N. Vakil, M.A., M.Sc. Lond.

Readers in Sociology—G. S. Ghurye, M.A., Ph.D. Camb.; N. A. Thoothi, D.Phil. Ox., B.A.

WILSON PHILOLOGICAL LECTURER. D. S. Margoliouth, M.A., D.Litt.

### AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

AHMEDABAD, *Gujarat College* (Govt.). Recognized in courses for B.A., M.A. B.Sc. Principal—G. F. Shirras, M.A. Aberd., F.S.S. Profs.: *Botany*—S. L. Ajrekar, B.A. *Chem.*—D. D. Kanga, M.A. *English*—C. Afonso, M.A.; R. N. Welinkar, B.A. Ox. *French*—P. L. Charlier, B.A. *Gujarati*—K. H. Dhurva, D.B., B.A. *Hist.*—M. S. Commissariat, M.A.; S. G. Deshpande, M.A. *Maths.*—V. M. Gaitonde, M.A. *Persian*—M. E. Namazi, B.A. *Physics*—V. B. Divatia, B.A. Camb., M.A. *Sansk.*—K. V. Anhyankar, M.A. *Zoology*—J. J. Asana, M.A. 10 other Asst. Lectrs.

AHMEDABAD, *Law College*. Under control of the Gujarat Law Society. Principal—D. S. Sethna, M.A., Barr.-at-Law. 11 other Profs.

BARODA, *College* (State). In courses for M.A., M.Sc., B.A., B.Sc. Principal—S. G. Burrow, B.Sc. Lond., A.R.C.S. Profs.: *Biol.*—S. V. Shevde, B.Sc. *Chem.*—K. G. Naik, M.A., D.Sc., D.I.C. Lond.; M. D. Awasare, B.A., M.Sc.; R. D. Desai, B.A., M.Sc. *Engl.*—A. X. Soares, M.A., LL.B.; S. M. Wadia, M.A.; S. S. Bhandarkar, B.A. *Hist. and Pol. Econ.*—J. M. Mehta, M.A. Ox., Barr.-at-Law; K. H. Kamdar, M.A. *Logic and Mor. Philos.*—A. K. Trivedi, M.A., LL.B.; M. A. Buch, M.A. *Maths.*—Gajanan G. Pendse, M.A.; A. C. Mukherjee, M.A.; B. Sengupta, M.A. Calc., B.L. *Pers.*—M. A. Kazi, M.A. *Phys.*—S. G. Burrow, B.Sc. Lond.; N. K. Apte, M.A., B.Sc. *Sansk.*—B. C. Lele, M.A., Ph.D. 7 other Lectrs., etc.

BHAVNAGAR, *Samaldas College* (State). In B.A. courses. Principal, and Prof. of *Engl. and Hist.*—T. K. Shahani, M.A. 10 other Profs., 1 Lectr.

BOMBAY, *Elphinstone College* (Govt.). In Arts. Principal, and Prof. of *English Lit.*—H. Hamill, B.A. Belfast. Other Profs.: *Engl.*—E. Parker, M.A., Ph.D. *French*—V. G. Rao, B.A. Camb. *Hist. and Pol. Econ.*—S. G. Panandikar, M.A., Ph.D. Lond.; R. P. Patwardhan, B.A. Ox. *Logic and Mor. Philos.*—S. G. Sathe, M.A. *Maths.*—P. S. Katti, M.A. Camb. *Pers.*—N. D. Minocherhomji, B.A. *Sansk.*—A. B. Gajendragadkar, M.A., and 7 others.

BOMBAY, *Grant Medical College* (Govt.). In Med. and in B.Sc. courses. Dean: Capt. S. L. Bhatia, M.C., M.A., M.D., I.M.S. Profs.: *Bact.*—P. A. Dalal, L.M. & S., D.T.M. & H. Camb. *Med. Jurisprudence*—W. Nunan, B.A., M.D. Dub. *Med.*—Lt.-Col. S. S. Vazifdar, M.R.C.P., I.M.S. *Mat. Med. and Pharmacy*—Sorab K. Engineer, O.B.E., F.R.C.P.S., F.C.P.S. *Midw. and Dis. of Women and Children*—Lt.-Col. A. F. Hamilton, M.B. Lond., F.R.C.S., I.M.S. *Surg.*—S. R. Moolgavkar, F.R.C.S. *Ophth.*—J. N. Duggan, O.B.E., L.M. & S., D.O., M.S. Ox. *Phys.*—J. A. D'Souza, B.A., L.M. and S. *Physiol. and Histol.*—Capt. S. L. Bhatia, M.A., M.D. Camb., I.M.S. *Operative Surg.*—V. L.

Parmar, M.B., B.S., F.R.C.S. *Path.*—Raghavendra Rowe, M.D., D.Sc. Lond. *Skin Dis.*—C. Fernandez, M.D. *Laryng., etc.*—S. H. Modi, F.R.C.S. *Anæsth.*—J. R. Jagose, L.M. and S., D.T.M. Liv. *Elec. Therap.*—P. M. Desai, M.R.C.S., L.R.C.P., D.M.R.E. Camb. *Hygiene*—H. D. Khote, M.B., B.S., M.R.C.P., D.P.H. *Dentistry*—J. J. Modi, L.M. & S., L.D.S. Eng. 3 Asst. Profs.

BOMBAY, *Government Law College*. Principal—V. G. Dalvi, B.A., LL.B. Camb., Barr.-at-Law. Profs.: B. K. Desai, M.A., LL.B., Advocate; M. L. Maneksha, Barr.-at-Law; H. V. Divatia, M.A., LL.B.; M. A. Somjee, B.A., LL.B., Barr.-at-Law; N. H. Bhagwati, M.A., LL.B., Advocate; A. A. Fyzee, B.A. (Camb.), LL.B., Barr.-at-Law; K. V. Joshi, M.A., LL.B.; S. R. Parulekar, B.A., LL.B.; M. G. Rao, M.A., LL.B.

BOMBAY, *St. Xavier's College* (S.J.). In Arts for B.A. and M.A.; in Science for B.Sc. and M.Sc. Principal, and Prof. of *French*—J. Dühr, Ph.D., D.D. Other Profs.: *Biol.*—J. P. Mullan, M.A., and 3 others. *Chem.*—J. F. Caius, F. Sacasa, and 4 others. *Engl. Lit.*—J. Fell, and 2 others. *French Lit.*—W. A. Phillips, O.A., and another. *Geology*—A. S. Kalapesi, B.A., B.Sc. (on leave). *Hebrew*—E. M. Ezekiel, B.A., LL.B. *Hist.*—H. Heras, A. C. Fernandez, M.A., E. Kaufmann. *Latin*—C. Ghezzi, B.A., Ph.D. *Philos.*—M. Sola, M.A., Ph.D. *Maths.*—H. Rafael, K. G. Datar, M.A., LL.B., and another. *Persian and Arabic*—Syed M. S. Reza. *Sansk. and Indian Philosophy*—R. Zimmermann, Ph.D. *Sansk.*—K. M. Shembavnekar, M.A.

BOMBAY, *Wilson College* (U.F. Church of Scotland). In Arts; in Science for M.Sc. Principal, and Professor of *Philosophy*—J. McKenzie, M.A. Aberd. Other Profs.: *Biol.*—Vinayak N. Hate, B.Sc. *Chem.*—A. R. Normand, M.A., B.Sc., Ph.D. Edin. *Econ.*—G. N. Joshi, M.A., LL.B.; J. Kellock, M.A. *Engl. Lit.*—J. C. Daruvala, M.A.; R. D. Choksi, M.A.; J. Mackintosh, M.A. Edin. *French*—M. J. Dave, M.A., Ph.D. *Hist.*—Hugh A. Sproat, M.A. Aberd. *Maths.*—J. McLean, M.A., B.Sc. Aberd. *Persian*—M. Ahmed, M.A. Calc. *Philos. and Hist.*—P. A. Wadia, M.A. *Physics*—D. B. Naik, M.A., B.Sc., LL.B. *Biology*—M. Ezekiel, M.Sc. *Sansk.*—Hari D. Velankar, M.A. 15 other Teachers.

BOMBAY, *Cama and Allbless Hospitals*. In Midwifery courses for the M.D.

BOMBAY, *Sydenham College of Commerce and Economics* (Govt.). In Arts for B.Com. and M.Com. Principal, and Prof. of *Currency and Banking*—M. L. Tannan, B.Com., Birm., Barr.-at-Law, I.E.S. Other Profs.: *Engl. and Cotton Industry*—M. J. Antia, M.A., LL.B. Camb. *Econ.*—R. M. Joshi, M.A., LL.B., B.Sc. Lond. *Statistics*—H. L. Kaji, M.A., B.Sc. Prof. of *Merc. Law*—Y. B. Rege, B.A., LL.B., Barr.-at-Law. *Accounting and Auditing*—S. S. Engineer, B.A., F.S.A.A. Prof. of *Econ. Hist. and Admin.*—Dr. N. J. Shah, B.A., Ph.D. Lond. *Actuarial Science*—L. S. Vaidyanathan, M.A., F.I.A. 5 other Teachers.

BOMBAY, *Secondary Training College* (Govt.). Trains graduates in Arts for the B.T. degree. Principal, H. R. Hamley, M.A., M.Sc., Dip.Ed. Melb., and 5 other Lectrs.

BOMBAY, *Municipal Laboratory*. In Chem. courses for the B.Hy. examn.

BOMBAY, *Royal Institute of Science* (Govt.). In Science for B.Sc. and M.Sc. Principal, and Prof. of *Org. Chem.*—A. N. Meldrum, D.Sc. Other Profs.: *Phys.*—G. R. Paranjpe, M.Sc. *Zool.*—P. R. Awati, B.A. Camb., D.I.C., F.E.D. *Bot.*—R. H. Dastur, M.Sc. Bom. *Maths.*—K. R. Gunjkar, B.Sc., M.A. Camb. *Inorg. and Phys. Chem.*—Mata Prasad, D.Sc., and 12 Asst. Lectrs.

BOMBAY, *Seih G. S. Medical College* (Munic.). In Medicine. Dean and Prof. of *Med.*—J. N. Mehta, M.D., M.R.C.P. Profs.: *Path. and Bact.*—V. R. Khanolkar, M.D., B.Sc. *Anat.*—R. P. Koppikar, M.S. *Physiol.*—S. P. Niyogi, M.Sc., M.B. *Pharm. and Mat. Med.*—A. S. Paranjpe, M.D., D.T.M., Ch.B. 21 Honorary Lecturers.

DHARWAR, *Karnatak College* (Govt.). In Arts and Sc. Principal, and Prof. of *Engl. and Philos.*—H. V. Hampton, M.A. Dub. Other Profs.: *English*—N. S. Takakhav, M.A.; B. N. Seal, B.A. Camb., I.E.S. *Econ.*—S. G. Beri, M.A. *Sansk.*—V. G. Bhat, M.A. Camb. *Pers.*—A. M. Moulvi, M.A. *Maths.*—D. P. Patrawali, M.A. Camb. *Logic and Philos.*—A. D. Dhopeshwarkar, M.A., LL.B. 13 Lectrs. and Demrs.

HYDERABAD (SIND), *Sind National College*. In Arts. Principal, and Prof. of *Eng.*—N. V. Thadani, M.A. 7 other Profs.

JUNAGADH, *Bahauddin College* (State). In Arts. Principal, and Professor of *Persian, Urdu, etc.*—Syed Nawab Ali, M.A. Other Profs.: *Engl.*—K. L. Oza, M.A. *French*—C. F. Saldanha, M.A. *Maths.*—Hari Shankar, M.A. *Pers.*—M. H. Tirmizy. *Sansk.*—N. B. Purohit, M.A.; S. B. Athalye, M.A. *Science*—Vasudev S. Ghurye, M.A. *Hist. and Pol. Econ.*—Hemraj Gopalram, M.A. 3 Lectrs.

KARACHI, *Dayaram Jehmal Sind College*. Under control of the Sind Collegiate Board. In Arts; in Science for B.Sc. Principal, and Prof. of *Phys.*—S. B. Butani, M.A., B.Sc. Other Profs.: *Biol.*—M. G. Punvani, B.A., M.B. *Chem.*—J. V. Lakhani, M.Sc. *Engl.*—T. M. Advani, M.A., LL.B. *Hist.*—D. T. Mariwalla, M.A. *Philos.*—G. G. Kewalramani, M.A., LL.B. *Maths.*—A. L. Shaikh, B.A., B.Sc. *Pers.*—Hotchand M. Gurbaxani, M.A. 6 other Teachers.

KARACHI, *Nadirshaw E. Dinshaw Civil Engineering College*. Under control of the Sind Collegiate Board. Principal, and Prof. of *Engin.*—G. N. Gokhale, B.Sc., A.M.I.E. Vice-Principal, and Prof. of *Struct. Engin.*—S. B. Junnarkar, B.Sc. Lond. *Eng.*—M. H. Advani and 8 other Teachers.

KARACHI, *Law College*. Under control of the Sind Collegiate Board. Principal—Charles M. Lobo, B.A., LL.B. 9 other Profs.

KOLHAPUR, *Rajaram College* (State). In Arts (up to B.A. Hons.) and in Science for Inter. Sci. Principal, and Prof. of *Hist. and Econ.*—Balkrishna, M.A. Panj., Ph.D. Lond. 12 other Profs., etc.

NARIK, *H.P.T. College*. In Arts. Under control of the Gokhale Educn. Soc. Principal, and Prof. of *History*—T. A. Kulkarni, B.A. 8 other Profs.

POONA, *Deccan College* (Govt.). In Arts; in Science for Inter. Sc. Course. Principal, and Prof. of *Engl.*—H. G. Rawlinson, M.A. Camb. Other Profs.: *Engl.*—E. A. Wodehouse, M.A. *Hist. and Econ.*—G. B. Jathar, B.A. Camb., M.A. Edin. and Bom.; A. C. Farran, M.A. *Pers.*—A. K. S. Shaikh, M.A. *Sansk.*—S. K. Belvalkar, Ph.D. Harv., M.A. *Maths.*—D. D. Kapadia, M.A., B.Sc. 7 other Teachers.

POONA, *Fergusson College*. In Arts; in Science for B.Sc. Under control of the Deccan Educn. Soc. Principal, and Prof. of *Physics*—K. R. Kanitkar, M.A., B.Sc. Other Profs.: *Bot. and Zool.*—Dhundiraj L. Dixit, B.A.; T. G. Yeolekar, M.A., B.Sc. *Chem.*—G. B. Kolhatkar, M.A.; M. K. Joshi, M.A.; D. D. Karve, Ph.D. *Engl. and Sansk.*—V. G. Paranjpe, D.Litt. Paris, M.A., LL.B. *Engl. and Marathi*—G. V. Tulpule, M.A. *Engl.*—Ganesh H. Kelkar, B.A. Camb., M.A. *German*—Krishnaji K. Joshi, M.A., Ph.D. Würz. *Hist.*

and *Pol. Econ.*—D. G. Karve, M.A. *Hist.*—S. R. Kanitkar, M.A. *Logic*, etc.—V. K. Joag. *Maths.*—V. B. Naik, M.A.; G. S. Mahajani, M.A. *Philos.*—N. G. Damle, M.A. *Sansk.-Shastri*—Vasudeo S. Abhyanker. *Sansk., Pali*, etc.—N. G. Suru, M.A. *Pers.*—B. D. Verma, M.A. Allah. 17 other Teachers.

POONA, *Agricultural College* (Govt.). In B.Ag. courses. A College Diploma course is also provided. Principal, and Prof. of *Botany*—W. Burns, D.Sc. *Agric. Econ.*—P. C. Patil, R.B., M.Sc. *Chem. and Geol.*—D. L. Sahasrabudhe, R.B., M.Sc., M.Ag. *Agric.*—V. G. Gokhale, L.Ag. *Entom.*—T. N. Jhaveri. *Hort.*—G. S. Cheema. *Agric. Engin.*, etc.—J. P. Trivedi, L.C.E. 21 other Teachers.

POONA, *College of Engineering* (Govt.). In Engin. (Civ. and Mech.) courses. Principal, and Prof. of *Engin.*—C. Graham Smith, O.B.E., V.D., A.C.G.I., Other Profs.: *Struct. Design*—H. P. Jordan, M.Sc. *Elec. Engin.*—Shiv Narayan, M.A., B.Sc. Panj., M.Sc., B.E. (Union U.S.A.), M.A.I.E.E. *Civil Eng.*—P. G. Dani, B.A. Bom., B.Sc. Lond., A.C.G.I., A.M.Inst.C.E. *Chem. and Geol.*—G. G. Narke, M.A. Calc., M.Sc. Manc. *Mech. Engin.*—A. David, B.Sc., M.E., A.M.I.E. 7 Lectrs.

POONA, *Sir Parashurambhau College*. In Arts; in Science for B.Sc. Under control of Shikahana Prasarak Mandal. Principal, and Professor of *Mathematics*—N. M. Shah, M.A. Camb. Other Profs.: *Econ. and Hist.*—R. P. Sabnis, M.A. Camb. *Engl. and Sansk.*—R. D. Karmarkar, M.A. *Engl.*—R. K. Lagu, M.A. *Philos.*—N. G. Naralkar, M.A., L.T.; S. V. Dandekar, M.A. *Marathi*—D. V. Potdar, B.A. *Physics*—M. R. Paranjpye, M.A., B.Sc. 11 other Teachers.

POONA, *Poona Law College*. Under control of the Indian Law Society. Principal—J. R. Gharpure, B.A., LL.B. (Hons.). 8 other Profs.

SANGLI, *Willingdon College*. In Arts. Under control of the Deccan Educn. Society, Poona. Principal and Prof. of *Hist. and Econ.*—B. G. Sapre, M.A. 8 other Profs.

SURAT, *M.T.B. College*. In Arts. Under control of Sarvajanic Educn. Soc., Surat. Principal, and Prof. of *Hist. and Econ.*—D. R. Gadgil, B.A., M.Litt. Camb. 14 other Profs.

## THE YEAR 1928-29

BENEFACTIONS. Rs. 1000 from Sir Daniel Hamilton for 4 prizes for best four essays on a subject connected with the Co-operative Movement. The University has been offered Rs. 2,00,000 towards a Coll. of Technology. The offer is under consideration.

DEVELOPMENTS. The Indian Society's Law Coll., Poona, was permanently recognized as a full grade Law College. The Civil Hospital, Ahmedabad, was recognized for the D.O. course for two yrs. from June 1928. The Karnatak Coll. was affiliated in Pali for the B.A. Pass Examn. The Thakkar Vassonji Madhavji lectures in Gujarati Lit. or Hist. were delivered for the first time. The Compulsory Physical Training, introduced as an experiment in the three Arts Colleges in Poona, was continued up to the end of the first term of 1928-29, and forms the subject of a favourable report from the three principals now before the Senate. The new Statutes, Ordinances, and Regulations under the University Act, 1928, were approved by the Chancellor in January 1929 (see *Bombay Univ. Handbook*, 1928-29, pp. 18A ff.).

STUDENTS. Full-time, 10,067, including 346 graduates. Part-time, 1893, including 1423 graduates.

DEGREES. B.A., 844; M.A., 86; B.Com., 63; B.T., 58; B.Sc., 244; M.Sc., 15; B.Ag., 60; M.Ag., 2; B.E. (Civil), 88; B.E. (Mech.), 10; LL.B., 377; LL.M., 2; M.B., B.S., 146; B.Hy., 2; M.D., 4; M.S., 4; D.O., 2; M.Com., 1.

# UNIVERSITY OF CALCUTTA

CHANCELLOR—THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—Prof. W. S. URQUHART, M.A., D.Litt.

PRESIDENT, POST-GRADUATE COUNCIL—Prof. S. RADHAKRISHNA, M.A., D.Litt. (Arts); Sir NILRATAN SIRCAR, Kt., M.A., M.D., LL.D., D.C.L. (Science).

REGISTRAR—RAI BAHADUR J. C. GHOSH, M.A.

CONTROLLER OF EXAMINATIONS—N. N. SEN, M.A., B.Sc.

INSPECTOR OF COLLEGES—H. C. MOOKERJEE, M.A., Ph.D.

SECRETARIES TO THE COUNCILS FOR POST-GRADUATION STUDIES :  
in Arts—G. N. BANERJEE, M.A., Ph.D.; in Science—H. C. BANERJEE, M.A., B.L.

## UNIVERSITY PROFESSORS

*Agriculture*  
Ganguli, N. N., C.I.E., B.Sc.  
Illinois, Ph.D. Lond.  
G. P. Singh Prof.

*Art : Indian Fine Arts*  
Tagore, A. N., C.I.E., D.Litt.  
Bageswari Prof.

*Botany*  
Agharkar, S. P., M.A., Ph.D.  
Berlin Sir R. B. Ghosh Prof.

*Chemistry*  
Ray, Sir P. C., Kt., C.I.E., D.Sc.  
Lond., Ph.D., F.C.S.  
Sir T. N. Palit Prof.  
Mitter, P. C., M.A., Ph.D. Berl.  
Sir R. B. Ghosh Prof.  
Sen, H. K., M.A., D.Sc. Lond.  
Sir R. B. Ghosh Prof. of  
Applied C.  
Mookerjee, J. N., D.Sc. Lond.  
G. P. Singh Prof.

*Economics*  
Banerjee, P. N., M.A., D.Sc. Lond.  
Minto Prof.  
Ray, S. C., M.A. Prof.

*English*  
Banerjee, J. G., M.A. Prof.  
Maitra, H. C., M.A. Prof.  
Banerjee, J. R., M.A., B.L. Prof.

*History and Culture, Ancient Indian*  
Bhandarkar, D. R., M.A., Ph.D.  
Carmichael Prof.

*Indian Vernaculars*  
Sen, Rai Bahadur, D.C., B.A., D.Litt. Prof.

*Islamic Studies*  
Siddique, Mahammad Zubair,  
M.A., Ph.D. Asutosh Prof.

*Mathematics*  
Prasad, Ganesh, D.Sc. Lond.  
(Higher M.) Hardinge Prof.  
Mookerjee, S. D., M.A., Ph.D. Prof.

Sen, N., D.Sc. (Applied M.)  
Sir R. B. Ghosh Prof.

*Mental and Moral Science*  
Radhakrishnan, S., M.A., D.Litt.  
George V. Prof.  
Haldar, H. L., M.A., Ph.D. Prof.  
Urquhart, W. S., M.A., D.Litt. Prof.

*Pali*  
Barua, B. M., M.A., D.Litt. Lond. Prof.

*Philology, Comparative*  
Taraporewala, I. J. S., B.A., Ph.D. Prof.

<i>Phonetics and Indian Linguistics</i>	Mitra, S. K., D.Sc.
Chatterjee, S. K., M.A., D.Litt.	G. P. Singh Prof.
Lond.	G. P. Singh Prof.
<i>Physics</i>	<i>Physiology</i>
Raman, Sir C. V., Kt., M.A., D.Sc., F.R.S.	Mahalanobis, S. C., B.Sc., F.R.S.E. Prof.
Palit Prof.	<i>Sanskrit</i>
Bose, D. M., M.A., Ph.D. Berlin	Sastri, Mahamahopadhyay Bha- gabatkumar, M.A., Ph.D.
Sir R. B. Ghosh Prof.	Asutosh Prof.
Ghosh, Phanindranath, M.A., Ph.D., D.Sc. Lond.	<i>Zoology</i>
Sir R. B. Ghosh Prof. of Applied P.	Das, B. K., D.Sc.
	Prof.

POST-GRADUATION TEACHERS IN ARTS. *Economics*, 20; *English*, 18; *History*, including *History and Culture*, *Ancient Indian*, 33; *Indian Vernaculars*, 23; *Mathematics*, *Pure*, 12; *Sanskrit*, 21; *Pali*, 12; *Persian and Arabic*, 8; *Philology*, *Comp.*, 5; *Philosophy*, 16; *Psychology*, *Expl.*, 7; *Anthropology*, 11; *Commerce*, 18.

POST-GRADUATION TEACHERS IN SCIENCE. *Botany*, 4; *Chemistry*, 16; *Geology*, 4; *Mathematics*, *Applied*, 11; *Physics*, 14; *Physiology*, 6; *Zoology*, 5.

UNIVERSITY LAW COLLEGE. Principal—S. C. Bagchi, B.A., LL.B., LL.D. Vice-Principal—B. M. Majumdar, M.A., B.L. Professors: *C.P. Code and Evidence*—Birajmohan Majumdar, M.A., B.L., and 3 others. *Crim. L.*—4. *Equity*—The Principal and 3. *Hindu L. and Const. L.*—J. P. Sarbadhikary, M.A., B.L., and 7. *Jurispr. and Roman L.*—Karunamay Basu, M.A., B.L., and 7. *Land Laws*—4. *Real Property, Contracts and Torts*—S. C. Roy, B.A., LL.B., Barr.-at-Law, and 8. *T.P. Act, Mahom., and Pers. L.*—Mukundanalti Roy, M.A., B.L., and 8.

## GENERAL INFORMATION

Founded in 1857, this Univ. has been mainly an examining body, but has provided facilities for research since 1893 (when the Premchand Roychand Endowment was applied to this purpose), and post-graduate teaching since 1909. In 1917 a new scheme for post-graduation teaching came into operation under which all students who desire instruction in the M.A. or M.Sc. courses in Calcutta must be registered in the Senate House as Univ. students. A Commission—Chairman, Sir Michael Sadler, K.C.S.I.—appointed in Sept. 1917, presented a comprehensive report and a series of important recommendations in March 1919. Teaching in all the subjects for the B.Com. examn., including French, German, and other modern languages, Arabic, Pali, Persian, Tibetan, Chinese, and Japanese, is provided by the Univ.

Government grants from 1912 to 1929 amounted to Rs. 60,47,679, including Rs. 6,61,000 for endowment of chairs, and Rs. 14,45,538 for Hostels and a Students' Mess Scheme. During the same period private benefactions amounted to Rs. 62,62,600.

The Univ. buildings (expenditure on which from 1912 to 1929 amounted to Rs. 38,07,111) include a Senate House, the Durbhanga LIBRARY with Law College, Hostel, and Univ. offices (Rs. 12,00,000), the Univ. Press, the Asutosh Building (Rs. 10,25,111) for post-graduation classes in Arts, post-graduation offices and lending library, and two palatial buildings for the teaching of post-graduation Science courses. LABORATORIES (in Univ. Coll. of Science): Phys. and Chem. (Pure and Applied), Applied Maths., Expl. Psych., Biol., Agric., Geol., etc.

**FACULTIES.** Arts, Science, Law, Medicine, Engineering. The Affiliated Institutions (v. *infra*) include Colleges of Law (Calcutta—Ripon and Univ.—Gauhati), Medicine (Belgachia and Calcutta), Engineering (Sibpur), and Teaching (Calcutta—David Hare and Diocesan).

**DEGREES, ETC.** B.A., M.A., Ph.D.; B.Sc., M.Sc., D.Sc.; B.Com.; B.T.; B.L., M.L., D.L.; M.B., M.D., M.S., M.O., D.P.H.; B.E., D.Sc. (Engin.).

**STUDENTS' WELFARE.** A committee of medical experts deals with all matters relating to the health of students, including physical education and organization of games and other forms of recreation. Military Training is provided for a Univ. Corps recruited from affiliated colleges. At the Hardinge Hostel for Law students the monthly charges amount to from Rs. 24 to Rs. 26.

**RESEARCH STUDENTSHIPS, ETC.** Premchand Roychand, Rs. 1400 p.a. for 3 yrs., awarded annually, 1 in Lit. and 1 in Science subject; Sreegopal Basu-mallik, Rs. 4000 in Vedanta (compared with Western) Philosophy; Durbhanga, Rs. 600 in Med.; Sir R. B. Ghosh, Rs. 900, 8 annually to Science students to be attached to the Sir R. B. G. Profs.; Guruprasanna Ghosh, 1 annually, tenable for 3 yrs. in Japan (Rs. 1000) or Europe or America (Rs. 2000) by Bengal Hindus; Palit., Rs. 1,00,000 endowment for research or investigation out of India: Sir R. B. Ghosh Travelling Fellowships (3), Rs. 2,50,000 endowment for research or investigation out of India for 1 yr.; Radhikamohan Educational Scholarship (1), Rs. 1,50,000 endowment for advanced study abroad tenable for 2 yrs. by Bengali Brahmins; Jubilee post-graduation scholarships in literary and scientific subjects, Rs. 32 p.m. for 2 yrs., one in each subject of the Honours B.A. and B.Sc. exams.; Sir P. C. Ray, annual prize for research in Chemistry, by a graduate student of the Univ. working in the College of Science, gold medal (value Rs. 100) and Rs. 500 in cash; Sir B. K. Bose, annual scholarship of Rs. 40 p.m. for a graduate student of the Univ. College of Science; S. N. Ghosh Lectureship in Comp. Religion, Rs. 9000; Tagore Professorship in Law, Rs. 9000; Kamala Lectureship in Indian Life and Thought, Rs. 1000 and gold medal. Numerous other lectureships, scholarships, medals, and prizes.

**PUBLICATIONS.** *Calendar*, Rs. 7.8; *Univ. Regulations*, Rs. 3.12; *Proceedings of Councils of Post-graduate Teaching*, 1918-1927, Rs. 3 each year; *Convocation Addresses*, 1915-1923, Rs. 5. 1858-1923, Rs. 10; *Calcutta Review*, monthly, annual subsn., Rs. 7 inland, Rs. 10 foreign; *Journals* of Depts. of Letters and of Science, Rs. 9 per vol.: Sir Asutosh Mookerjee Silver Jubilee volumes—vols. i., ii., and vol. iii. in 3 parts, Rs. 11-4 each; *Bulletin of Math. Society*, etc. Other publications (about 200 vols.) on Ancient Indian Culture, History, Philosophy, Law, Economics, Mathematics, Language, and Science.

## AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[B.A., M.A., B.Sc., M.Sc., B.Com., etc.=affiliated up to B.A., M.A., etc., standard.]

**BAGERHAT COLLEGE.** B.A. Principal—K. C. Nag, M.A. 22 other Teachers.

**BANKURA, Wesleyan College.** B.A. and B.Sc. Principal—A. E. Brown, C.I.E., M.A. Camb., B.Sc. Lond. Vice-Principal—A. R. Spooner, B.A. Lond. 23 other Teachers.

**BARISAL, Brojomohan College.** B.A. and B.Sc. Principal, and Prof. of Maths.—S. C. Chatterjee, M.A. 35 other Teachers.

**BELGACHIA, Carmichael Medical College.** M.B. Principal—Kedarnath Das, C.I.E., M.D. Profs.: *Anat.*—M. N. Bose, M.B., C.M. Edin. *Physiol.*

—S. C. Mahalanobis, B.Sc., F.R.S.E. *Mat. Med.*—P. Nandi, M.D. *Midw.*—K. N. Das, C.I.E., M.D.; N. Basu, L.M.S. *Surg.*—M. Mitra, M.D. *Brux.*, F.R.C.S. *Edin. Med.*—B. C. Roy, M.D., M.R.C.P., F.R.C.S. *Jurispr.*—Major B. G. Mallya, I.M.S. *Op. Surg.*—L. M. Banerjee, M.S. *Calc.*, F.R.C.S. *Eng. Opth. Surgery*—M. N. Chatterjee, M.B. *Pathology*—Charuchandra Bose, M.B. *Hygiene*—T. N. Majumdar, D.P.H. 50 other Teachers.

BERHAMPUR, *Krishnath College*. B.A. and B.Sc. Principal—..... 37 Profs. and other Teachers.

BHOWANIPUR, *Asutosh College*. B.A. and B.Sc. Principal, and Prof. of *Econ.*—Panchanan Sinha, M.A., B.L. 28 other Teachers.

CALCUTTA, *Bangabasi College*. B.A. and B.Sc. Principal—G. C. Bose, F.H.A.S., M.A., M.R.A.S. 43 Teachers.

CALCUTTA, *Bengal Engineering College* (Govt.). B.E. Principal—A. Macdonald, M.A., B.Sc., A.M.I.E. Ind. Profs. of *Civil Engin.*, *Elec. Engin.*, *Mech. Engin.*, *Geology*, *Physics and Maths.*, and *Chemistry*. 24 other Teachers.

CALCUTTA, *Bihune College* (Girls). B.A. Supported by Govt. Principal—Mrs. Rajkumari Das, M.A. 14 Teachers.

CALCUTTA, *City College*. B.A. and B.Sc. Principal, and Prof. of *Engl Lit.*—Herambachandra Maitra, M.A. Vice-Principal, and Prof. of *Maths.*—K. P. Chatteraj, M.A. 50 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.). B.T. Principal—W. E. Griffith, M.A. Prof. of *Hist. of Educn.*—Babu Kshetragopal Mukheje, M.A., B.T. Other Profs.: Binayabhusan Sarkar, B.A., B.T.; K. D. Ghose, B.A. Ox.; G. C. Dasgupta, B.A., B.T. 2 other visiting Drill and Drawing Masters.

CALCUTTA, *Diocesan College* (Girls). B.A., B.T. Principal—Sister Dorothy Frances. 33 Teachers.

CALCUTTA, *Islamia College*. B.A. Principal and Prof. of English—A. H. Harley, M.A., I.E.S. 29 other Teachers.

CALCUTTA, *Loreto House* (Girls). B.A. Established 1842. Connected with Univ. since 1889. Principal—Provincial of the Loreto nuns in India. Vice-Principal—Superioress of Loreto House. 10 other Teachers.

CALCUTTA, *Medical College of Bengal*. M.B. Principal—Lt.-Col. A. D. Stewart, M.B., D.P.H., D.T.M. & H., F.R.C.S., I.M.S. Other Profs.: *Medicine*—Lt.-Col. J. D. Sandes, M.D., F.R.C.P., I.M.S. *Clinical and Operative Surgery*—Lt.-Col. W. L. Harnett, M.B., F.R.C.S., I.M.S. (Offg.); Lt.-Col. H. B. Stein, M.D., I.M.S. *Botany and Zoology*—E. Ghosh, M.Sc., M.D., F.Z.S. *Chemistry*—Lt.-Col. T. C. Boyd, I.M.S. *Physics*—T. D. Kar, M.A. *General Anatomy and Physiology*—Lt.-Col. A. C. MacGilchrist, M.A., M.D., D.Sc., M.R.C.P., I.M.S. (Retd.). *Materia Medica*—Lt.-Col. R. N. Chopra, M.D., I.M.S. *Descriptive and Surgical Anatomy*—Rai Bahadur N. Pan, M.B. *Principles of Surgery*—Lt.-Col. Sir E. P. Connor, Kt., D.S.O., I.M.S.; Lt.-Col. H. B. Stein, M.D. *Midwifery*—Lt.-Col. V. B. Green Armytage, M.D., M.R.C.P., I.M.S.; Major P. F. Gow, D.S.O., M.B., F.R.C.S.E., D.P.H., I.M.S. *Clinical and Operative Obstetrics and Gynaecology*—Major S. A. McSwiney, M.B., F.R.C.S.I., I.M.S. *Medical Jurisprudence*—Major J. B. Mallya, I.M.S. *Ophthalmic Medicine and Surgery*—Major E. O. G. Kirwan, M.Sc., M.B., F.R.C.S.I., I.M.S. *Dentistry and Dental Operation*—J. E. Gill, L.D.S. (England). *Clinical Medicine*—Major J. C. De, M.B., M.R.C.P., I.M.S. *Pathology*—Major George Sanks, M.D., I.M.S. *Hygiene*—C. A. Bentley, M.B., D.P.H., D.T.M.H. 29 others.

CALCUTTA, *Presidency College*. B.A. and B.Sc. Maintained by Govt. Number of undergrads. limited to 1200. Principal—J. R. Barrow, M.A. Other Profs.: *English Literature*—B. G. Mukerjee, M.A.; P. C. Ghosh, M.A.; S. K. Banerjee, M.A.; H. K. Banerjee, M.A., B.Litt.; M. G. Bhattacharjee, M.A.; A. K. Chanda, M.A. Ox.; M. C. Chatterjee, M.A. *Geology*—H. C. Das Gupta, M.Sc. *Ment. and Mor. Philos. and Logic*—Hemchanda De, M.A.; P. D. Shastri, M.A., Ph.D. Kiel, B.Sc. Ox.; S. N. Das Gupta, Ph.D.; R. K. Datta, M.A. *Hist.*—K. Zachariah, B.A.; B. Sen, M.A.; U. N. Ghoshal, M.A., Ph.D.; S. C. Majumdar, M.A.; S. Bhattacharyya. *Pol. Econ. and Pol. Philos.*—Sir J. C. Coyajee, B.A., LL.B.; P. D. Mukherjee, M.A.; D. G. Chatteraj, M.A. *Sansk., Pali, and Bengali*—N. Chakrabarti, M.A.; Harihar Banerjee, M.A.; S. P. Bhattacharyya, M.A.; S. N. Bhaduri, M.A. *Arabic and Pers.*—Taher Rezwi, M.A.; Md. Sonaulah, M.A.; M. Haque, M.A.; Zia-ul Huqs, M. *Maths. and Astron.*—B. M. Sen, M.Sc., M.A. Camb.; Saradaprasanna Das, M.A.; J. M. Bose, M.A., B.Sc. Edin.; H. C. Sengupta, M.A.; N. K. Bose, M.A., Ph.D.; K. N. Chakravarti, M.A. *Phys.*—P. C. Mahalanabis, B.A.; S. Datta, D.Sc. *Chem.*—R. N. Sen, M.Sc.; P. Niyogi, Ph.D., F.C.S. *Physiol.*—N. C. Bhattacharyya, M.A., B.Sc.; N. Basu, M.Sc. *Botany*—S. C. Banerjee, M.A.; K. G. Banerjee, M.Sc.; G. P. Majumdar, M.Sc. 40 Assts. and Demrs.

CALCUTTA, *Ripon College*. B.A., B.Sc., B.L.

*College Department*. Principal, and Prof. of Engl.—N. Raye, M.A. Vice-Principal, and Prof. of Engl.—R. N. Ghose, M.A. 35 other Teachers.

*Law Dept.* Principal—S. C. Chaudhuri, M.A., LL.B. Camb., Barr.-at-Law. Prof.—J. N. Kanjilal, M.A., D.L. 10 other Teachers.

CALCUTTA, *St. Paul's Cathedral Mission College* (formerly "The Church Missionary Society's College"). B.A. Principal, and Prof. of *Economics*—Rev. P. G. Bridge, D.D. 21 other Teachers.

CALCUTTA, *St. Xavier's College* (S.J.). B.A., B.Sc. Students of other religious persuasions are admitted. Rector—E. Roeland, S.J. 37 other Teachers.

CALCUTTA, *Sanskrit College*. B.A. Principal, and Prof. of *Philos. and Logic*—A. N. Mukerjee, Ph.D. 15 other Teachers.

CALCUTTA, *Scottish Churches' College*. B.A. Hons. and B.Sc. Hons. Formerly the General Assembly's Institn. and Duff Coll. Principal—W. S. Urquhart, M.A., D.Litt. Other Profs.: *Engl.*—A. Cameron, M.A., B.D.; I. M. Miller, M.A., B.D.; O. Owens, B.A. Lond.; A. Mowat, M.A.; S. C. Dutt, M.A.; B. B. Ray, M.A. *Philos. and Logic*—Principal—P. C. Sen, M.A.; S. P. Biswas, M.A.; A. K. Bose, M.A. *Econ.*—J. Kellas, M.A.; N. C. Bhattacharyya, M.A.; Rev. L. A. Natesan, M.A. *Maths.*—M. S. Sarkar, M.A.; B. B. Mandal, M.Sc.; N. K. Karfarma, M.A.; B. N. Mukerjee, M.Sc. *Sansk.*—B. L. Banerjee, M.A.; K. P. Mookerjee; N. L. Vidyabinod. *Bengali*—M. M. Bose. *Hindi*—Shib Narain Lala. *Physics*—Rai J. Chandra Ghosh, Bahadur, M.A. (Emeritus); N. C. Ray, M.A.; R. K. De, M.A., B.Sc. *Chem.*—B. C. Dutt, M.A., F.C.S.; R. N. Chatterjee, M.A. *History*—H. E. Fraser, M.A.; M. L. Sarkar, M.A.; A. C. Sen, M.A. 14 other Lectrs. and Demrs.

CALCUTTA, *Vidyasagar College* (formerly Metropolitan Institn.). B.A., B.Com., and B.Sc. Principal, and Prof. of *Engl. Lit. and Philos.*—J. R. Banerjee, M.A., B.L. 72 other Teachers.

CHITTAGONG, *College* (Govt.). B.A. and B.Sc. Principal—R. B. Ramsbotham, M.B.E., M.A., B.Litt. 30 Teachers.

COMILLA, *Victoria College*. B.A. Principal, Satyendranath Basu, M.A. 21 other Teachers.

COOCH-BEHAR, *Victoria College*. B.A. and B.Sc. Principal, and Prof. of *Physics*—M. Dey, M.A. 18 other Teachers.

DAULATPUR, *Hindu Academy*. B.A. and B.Sc. Pass and Hons. Acharyya—Pandit J. K. Tarkatirtha. Principal—B. B. Bhattacharyya, M.A. Vice-Principal—S. G. Mukerjee, M.A. 29 other Teachers.

FARIDPUR, *Rajendra College*. B.A. Principal, and Prof. of *English*—K. N. Mitra, M.A. 15 other Teachers.

FENI COLLEGE. B.A. Principal, and Prof. of *History*—A. C. Rakshit, M.A. 15 other Profs.

GAUHATI, *Cotton College* (Govt.). M.A. in English (A course); B.A. and B.Sc. Principal—D. Thomson, M.A., B.Sc., Ph.D. Profs.: *Engl.*—Praphul-lachandra Ray, M.A.; Asutosh Chatterjee, M.A.; S. K. Bhuyan, M.A., B.L.; B. K. Kakati, M.A. Prof. of *Physics*—S. N. Chatterjee, M.A. *Chem.*—A. K. Das, M.A.; S. C. Chatterjee, M.Sc. *Maths.*—Harshanath Sen, M.Sc. *Philos.*—R. R. Thomas, M.A. *Sansk.*—L. N. Chatterjee, M.A., V.S. *Arabic and Persian*—S. Md. Mahibullah, M.A. *Economics*—A. E. Brown, M.A., LL.B., Barr.-at-Law. 12 other Teachers.

GAUHATI, *Earle Law College* (Govt.). Principal—J. Borooah, Barr.-at-Law. Profs.: A. E. Brown, M.A., LL.B., Barr.-at-Law; R. C. Das, M.A., B.L. Tirthunath Phukan, B.L.

HETAMPUR, *Krishna Chandra College*. B.A. Principal—B. C. Sengupta, M.A., B.L. 8 other Teachers.

HUGHLI COLLEGE. B.A. and B.Sc. Maintained by Govt. Principal, and Prof. of *Hist.*—K. C. Bhattacharyya, M.A. Vice-Principal, and Prof. of *Physics*—P. P. C. Bhattacharyya, M.A. 19 other Teachers.

KRISHNAGAR COLLEGE (Govt.). B.A. and B.Sc. Principal—Kamaluddin Ahmed, M.A., B.A. (Camb.). Vice-Principal—K. C. Mitra, M.A. 18 other Teachers.

MIDNAPORE, *Midnapore College*. B.Sc. (Hons. in Phys. and Maths.). Principal—H. C. Sanyal, M.A., B.L. 18 Teachers.

MYMENSINGH, *Anandamohan College*. B.A. Principal—Jajneswar Ghosh, R.B., M.A., Ph.D. 30 Teachers.

PABNA, *Edward College*. B.Sc. Principal—Rai R. N. Bose Bahadur, M.A. 15 other Teachers.

RAJSHAHI, *Government College*. B.A. and B.Sc. Principal—A. K. Mukherjee, M.A. 33 other Teachers.

RANGPUR, *Carmichael College*. B.A. and B.Sc. Principal, and Prof. of *Phys. and Maths.*—D. N. Mallik, B.A. Camb., Sc.D. Dub., B.Sc. Lond., I.E.S. 24 other Teachers.

SERAMPORE COLLEGE (chartered in 1818 by the King of Denmark. Grants a B.D. degree which is accepted as equivalent to Calcutta B.A. as qualifying for post-graduation courses in most subjects. (Bishops' College, Calcutta, and 4 other Theological institutions are affiliated to it). B.A. Principal—G. Howells, M.A., B.D., B.Litt., Ph.D. 27 other Teachers.

SYLHET, *Murarichand College* (Govt.). B.A. Principal—D. E. Roberts, M.Sc. Wales, I.E.S. (on leave). Acting Principal—Khan Bahadur A. A. Syed, M.A., I.E.S. 25 Teachers.

BURDWAN RAJ COLLEGE. I.A., B.A. Principal, and Prof. of *Engl.*—Babu Chandicharan Mitra, M.A., B.L. 17 other Teachers.

NARASINHA DUTT COLLEGE, HOWRAH. I.A., I.Sc. Principal, and Prof. of *Engl.*—S. C. De, M.A. 9 other Teachers.

PRABHATKUMAR COLLEGE, CONTAI. I.A. Principal, and Prof. of *Maths.*—Nepalchandra Ray, M.A. 5 other Teachers.

SAADAT COLLEGE, KARATIYA. Int.A. Principal—Maulvi Ebrahim Khan, M.A., B.L. 7 other Teachers.

ST. EDMUND'S COLLEGE, SHILLONG. Interm. Standard. Principal, and Prof. of *Geog.*—Rev. Brother J. E. McCan. 5 other Teachers.

ST. JOSEPH'S COLLEGE, CALCUTTA. Int.A., Int.Sc. 7 Teachers.

UTTARPARA COLLEGE. Int.A., Int.Sc. Principal, and Prof. of *Physics*—Dhrubakumar Pal, M.A., B.Sc., B.L. 7 other Teachers.

VICTORIA COLLEGE, NARAIL. Int.A., Int.Sc. Principal, and Prof. of *Engl.*—Gopalchandra Maitra, M.A. 9 other Teachers.

## THE YEAR 1928-29

**BENEFACCTIONS.** For scholarships, medals, etc., Rs. 1,76,600, including Rs. 25,700 from the late Prof. Henry Stephen for Post-Graduate Studies and Rs. 1,50,000 in G.P. Notes from Sm. Sailasuta Devi for Foreign Scholarship.

**NEW BUILDINGS.** The extension of the Science College Laboratory at 92 Upper Circular Rd. by the construction of two rooms is in progress. The University is in communication with the Govt. of Bengal for the acquisition of land for the erection of a building for the University Press, as also for the necessary grants.

**NEW DEPARTMENTS AND POSTS.** Mahamahopadhyay Bhagabatkumar Sastri, M.A., Ph.D., and Mahammad Zubair Siddiqui, M.A., Ph.D., appointed to the two newly created Chairs, the Asutosh Chairs of Sanskrit, and Islamic Study and Culture, respectively.

**OTHER DEVELOPMENTS.** The draft bill framed by Govt. for a Board of Secondary Education, Bengal, was considered by the Senate and the Bill, as revised, is now before Govt. A draft bill for reconstitution of the Senate is now under consideration of the Univ.

**CHANGES IN REGULATIONS.** New rules governing the procedure of debate at meetings sanctioned; detailed syllabuses for the different subjects at the B.Com. Examination and for Syriac for the M.A. Examination defined. Changes in the courses of studies for other examns., including those in Physics for the Intermediate, B.A., and B.Sc. Examinations, Hebrew for the M.A. Examination and Mathematics for the M.A. and M.Sc. Examinations sanctioned.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES AND OF MEMBERS OF STAFF TO OTHER UNIVERSITIES.** The following were invited to lecture in their special subjects: Dr. Helmuth Glassnapp, Ph.D., of Berlin Univ., on "Jainism and Influence of Indian Thought on German Philosophers"; Prof. Arnold Sommerfeld of Munich Univ. on "Atomic Structure"; Prof. D. S. Margoliouth, M.A., D.Litt., of Oxford Univ., on "Arab Historians"; Prof. Arthur Percival Newton of London Univ. on "Principles of Historical Investigation"; Prof. Dr. Schaub of North-Western Univ., Illinois, on a philosophical subject; Prof. Radhakamal Mookerjee of Lucknow Univ. on "Land Problems"; Dr. W. Hamilton Drummond, D.D., on "History of the Liberal Movement in

Religion in the West during the last 100 years"; Sreegopal Basumallik Fellow: Prof. R. D. Ranade, M.A. of Poona, on "Vedanta Philosophy"; Adhar-chandra Mukherjee Lecturer: Mr. Kshitimohan Sen of Vishwabharati on "Mediaeval Indian Religious Movements."

DEATHS. Maharajadhiraj Sir Rameshwar Singh, G.C.I.E., K.B.E., of Durbhanga, Honorary Fellow, and one of the most generous donors; Shamacharan Ganguli, B.A., Honorary Fellow; Rev. G. Ewan, Ordinary Fellow.

RETIREMENT. Sir Jadunath Sarkar, Kt., C.I.E., M.A., vacated office of Vice-Chancellor.

HONORARY DEGREE. *D.Sc.*—Prof. Arnold Sommerfeld.

STUDENTS. Arts, 1325, including 919 graduates; Science, 254 (all graduates).

DEGREES. B.A., 1515; B.Sc., 589; M.A., 280; M.Sc., 117; Ph.D., 5; D.Sc., 3; B.T., 74; B.L., 748; B.E., 23; B.Com., 40; M.B. (New), 139; M.B. (Old), 43; D.P.H. 13.

## CALCUTTA SCHOOL OF TROPICAL MEDICINE AND HYGIENE

The School, which comprises (1) the SCHOOL OF TROPICAL MEDICINE, (2) the INSTITUTE OF HYGIENE, (3) the CARMICHAEL HOSPITAL FOR TROPICAL DISEASES, and (4) the CALCUTTA PASTEUR INSTITUTE, is supported mainly by the Government of Bengal, but it has an endowment fund which amounted on Dec. 31, 1925, to nearly £90,000, and receives large sums annually from commercial and industrial firms and individuals and the Indian Research Fund Association. A post-graduation clinical and laboratory course (Oct.-April) leads to the D.T.M. of the Faculty of T.M. of Bengal. A 3 months' (July-Oct.) course for medical officers and other practitioners leads to a certificate granted by the same authority. A 9 months' course (Oct.-July) for medical graduates leads to the D.P.H. of the Univ. of Calcutta and of other examining bodies.

Research Departments: Dermatology, Spirochaetosis, Indigenous Drugs, Hookworm, Kala-azar, Diabetes, Filariasis, Leprosy, and Radiology.

Director—Lt.-Col. H. W. Acton, M.R.C.S., L.R.C.P., I.M.S., Professor of Pathology and Bacteriology. Assistant Director—R. T. M. Hayter, I.M.D. Other Professors: Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S.; Lt.-Col. R. Knowles, B.A. (Camb.), M.R.C.S., L.R.C.P., I.M.S.; Lt.-Col. R. N. Chopra, M.A., M.D. (Camb.), I.M.S.; Lt.-Col. R. B. Lloyd, M.A., M.B., B.Ch. (Camb.), I.M.S.; C. Strickland, M.A., M.D. (Camb.), B.Ch.; Sudhamay Ghosh, M.Sc. (Cal.), D.Sc., F.R.S. (Edin.), F.C.S. (Lond.); Sivapada Bhattacharji, M.D. (Cal.), (Offg.); B. B. Brahmachari (Offg.). 12 Assistant Professors and Lecturers.

# UNIVERSITY OF DACCA (BENGAL)

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR—Prof. G. H. LANGLEY, M.A.

TREASURER—RAI SASAAGA COMAR GHOSE BAHADUR, C.I.E., B.L.

REGISTRAR—KHAN BAHADUR NAZIRUDDIN AHMAD, M.A.

LIBRARIAN—FAKHRUDDIN AHMAD, M.A. (on leave).

## TEACHING STAFF

### *Arabic and Islamic Studies*

Siddiqi, A., M.A. All., Ph.D. Gött.

Prof. (on leave).

Schact, J. Prof. (tempy.).

Israeli, Saadat Ulla Lectr.

Ali, Munawar Lectr.

Ahmad, Marghoob, M.A., M.O.L.

Panj. Lectr.

Khalid, A. U., M.A., B.L. Calc.

Lectr.

2 Asst. Lectrs.

### *Chemistry*

Ghosh, J. C., D.Sc. Calc. Prof.

Choudhury, J. K., M.A. Calc.,

Ph.D. Berl.

Reader (Analytical C.).

Guha, P. C., D.Sc. Calc.

Reader (on leave).

Sahay, Guha Sarkar Sarbani, D.Sc.

Lond. Reader (tempy.).

De, R. L., M.Sc. Calc. Lectr.

Purakayastha, R. M., M.Sc. Calc.

Lectr.

Basu, K. P., M.Sc. Lectr.

7 Asst. Lectrs.

### *Commerce*

Junnarkar, P. B., M.A., LL.B.

Bom. Reader.\*

Rallan, S. R., B.Com. Birm. Lectr.

2 Asst. Lectrs.

### *Economics and Politics* [Reader.\*

Sinha, J. C., M.A., Ph.D. Calc.

Banerjee, D. N., M.A. Calc. Reader.

Aiyyer, S. V., M.A. Mad. Lectr.

Saha, K. B., M.A. Calc. Lectr.

Dam, M. L., M.A. Calc. Lectr.

Sen, A. K., M.A. Calc. Lectr.

4 Asst. Lectrs.

### *Education* [Hon. Reader.\*

West, M. P., M.A., D.Ph. Ox.

7 Hon. Teachers.

### *English*

..... Prof.

Hasan, M., M.A. Calc., B.A. Ox.

Reader.\*

Guha, P. K., M.A., B.L. Calc.

Lectr.

Kar, G. C., M.A., Ph.D. Calc. Lectr.

Ray, B. K., M.A., B.L. Calc. Lectr.

Chanda, S. M., M.A. Calc.

Lectr. (on leave).

Roy, S. N., M.A. Calc. Lectr.

Chandhury, J. N., M.A. Calc.

Lectr.

2 Asst. Lectrs.

### *History*

Majumdar, R. C., M.A., Ph.D.

Calc. Prof.

..... Reader.

Qanungo, K. R., M.A. Calc.

Reader.

Banerjee, S. C., M.A. Calc. Lectr.

Bhattacharyya, S. N., M.A. Calc.

Lectr.

1 Asst. Lectr.

\* Head of Department.

<i>Law</i>	[Prof.]	<i>Philosophy</i>	[Reader.*]
Ghose, N. N., M.A., B.L. Calc.		Bhattacharyya, H. D., M.A. Calc.	
Das Gupta, J. N., M.A., M.L. Calc.	Lectr.	Bhattacharyya, U. C., M.A. Calc.	Lectr.
Dutta Gupta, A. K., M.A., B.L. Calc.	Lectr.	Gupta, U. N., M.A. Calc.	Lectr.
Pal, N. C., M.A., B.L. Calc.	Lectr.	Ahmed, M., M.A. Dac.	Lectr.
5 Part-time Lectrs.		2 Asst. Lectrs.	
<i>Mathematics</i>		<i>Physics</i>	
.....	Prof.	Bose, S. N., M.Sc. Calc.	Prof.
Basu, N. M., D.Sc. Calc.		Krishnan, K. S., M.Sc. Mad.	Reader.
	Reader (on leave).	Ghosh, S. N., M.A. Calc.	Reader.
Ghosh, J., M.A. Calc., Ph.D. Edin.	Reader.*	Guha, B. C., M.Sc. Calc.	Lectr.
Ganguly, D. N., M.A. Calc.	Lectr.	7 Asst. Lectrs.	
Sircar, H., M.Sc. Calc.	Lectr.	<i>Sanskrit and Bengali</i>	
Mitra, S. C., M.A. Calc.	Lectr.	.....	Prof.
Basu, K. M., M.Sc. Calc.	Lectr. (tempy.).	De, S. K., M.A., B.L. Calc., D.Lit. Lond.	Reader.*
1 Asst. Lectr.		Basak, R. G., M.A. Calc.	Lectr.
<i>Persian and Urdu</i>		Bhattacharyya, G. P., M.A. Calc.	Lectr.
Khan, F. A., M.A. Calc.	Reader.	Shahidullah, M., M.A. Calc.	Lectr.
Azad, S. M. Z. H., B.A. Panj.	Lectr.	Bandyopadhyay, C., M.A. Dac.	Lectr.
Shadani, W. H. A., M.A., M.O.L., M.F. Panj.	Lectr.	Mozundar, M. L., B.A. Calc.	Lectr.
1 Asst. Lectr.		2 Asst. Lectrs.	

\* Head of Department.

ASSOCIATED COLLEGE. Teachers' (Govt.) Training College, Dacca. The Principal and teachers are honorary teachers of the Univ. and the College students read for the L.T. and B.T. in accordance with regns. prescribed on that behalf.

## GENERAL INFORMATION

This Univ. was established in 1921 under an Act passed in 1920 which provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine. It is constituted in its main lines in accordance with the recommendations of a Committee, Chairman, the late Sir Robert Nathan, and of the Calcutta Univ. Commission of 1917-19, Chairman, Sir Michael Sadler. Although special attention is being devoted to Islamic Studies and to the needs of the Musalman community, the Univ. remains open to all, without distinction of sex, race, creed, or class. It is a unitary and residential Univ., of which the constitution resembles in many respects that of the modern English universities. The Authorities of the Univ. include a Court, an Executive Council, an Academic Council, and Faculties; and the Teaching Staff has the main responsibility for all matters connected with teaching and exams. The students (other than those living under specially approved conditions) reside in Halls and Hostels, and the Univ. teachers in houses erected for them, in the Univ. domain. The domain consists of about

a square mile of fine park land, including over 100 acres of playing fields. It is adjacent to the Civil Station of Dacca and to a park called the Ramna, and lies from 1 to 1½ miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief existing buildings for teaching and administrative purposes include : Central buildings, containing about 200 rooms, which cover 117,000 feet of floor space used for Class-rooms and Library (at present utilized partly as a hostel for Muslim students) ; Chemical and Physical Laboratories, each including about 12,000 sq. feet of floor space ; the Curzon Hall (which accommodates about 2000 persons) ; the Dacca Hall buildings, with residential accommodation for 160 students ; the Jagannath Hall buildings, providing for 200 students.

**LIBRARY**, 50,000 vols. **LABORATORIES** : Physical, with metal and wood workshops ; Chemical, with special arrangements for training in commercial analytic methods ; and Psychological.

**FACULTIES.** Arts, Science, Law.

**ADMISSION.** The standard required for admission to courses leading to degrees is that of the Intermediate examn. of an Indian Univ.

**DEGREES, ETC.** The duration of the courses of studies prescribed is as follows : for B.A. or B.Sc. ordinary, 2 yrs., with Honours, 3 yrs. ; Diploma in Practical English, 1 yr. ; M.A. or M.Sc., 2 yrs., or in the case of a Dacca Honours B.A. or B.Sc., 1 yr. ; B.T. or L.T., 1 yr. ; M.T., 3 yrs. ; B.Com., 2 yrs. ; B.L., 3 yrs. (Dacca Honours B.A., 2 yrs.) ; M.L., 3 yrs. The Ph.D., D.Sc., or D.L. may be taken by graduates of 3 yrs.' standing, but graduates of other Univs. must first pursue researches in this Univ. for 2 yrs. ; published research work required.

**SCHOLARSHIPS** open to graduates : 3 of Rs. 40 each p.m., 10 of Rs. 32, 1 of Rs. 30 (for backward classes only), 2 of Rs. 25 (Muhammadans only). Law Scholarship of Rs. 50 (open to Law graduates). Research studentships : 2 of Rs. 100 p.m. and 4 of Rs. 75.

**FEES.** Tuition, per session ; for B.A., B.Sc., or B.L. course, Rs. 96 ; for B.Sc. with Honours in Physics and Chemistry, Rs. 120 ; M.A., Rs. 120 ; M.Sc., Rs. 144 ; Diploma Course in Practical English, Rs. 60 ; Registration, R. 1 ; Admission, Rs. 5 ; Athletic, Rs. 5 ; Students' Union, Rs. 3 ; Research students, Rs. 10 ; Enrolment of Registered Graduates, Rs. 5 ; Enrolment of Registered Graduates for Life, Rs. 25. **HOSTELS** : Seat-rent varies from Rs. 2 to Rs. 4 p.m., including cost of light, water, medical attendance, medicine and servants. Cost of food about Rs. 12 p.m.

**TUTORIAL CLASSES** have been organized for all the Depts. of Study. All the teachers of the Univ. are engaged in the work under the control of the Heads of the Depts. and the Provosts.

**PUBLICATIONS.** *General Information Pamphlet* (May) ; *Annual Report* (July) ; *Bulletins*.

## THE YEAR 1928-29

**BENEFACTIONS.** The Nawab of Dacca has promised a further donation of Rs. 10,000 (in addition to Rs. 3600 per annum for a period of six years) for stipends to deserving students of the Muslim Hall.

**NEW BUILDINGS.** The construction of the Salimullah Muslim Hall buildings is progressing. Govt. has sanctioned the payment of Rs. 3,50,000 during the current financial year out of the total estimated cost of Rs. 9,06,884 for this purpose.

**NEW DEPARTMENTS AND POSTS.** The Govt. of Bengal has given its administrative approval to the establishment of a department of Botany and Bacteriology. Provision will be made for this department in the Education Budget for 1930-31. An additional Readership in Modern History has been sanctioned for the Department of History.

**OTHER DEVELOPMENTS.** A special one-month course entitled "Vacation Course in the Teaching of English" was held in the last Long Vacation under the supervision of Dr. M. P. West, M.A., D.Ph., Principal of the Teachers' Training College, Dacca, and Hony. Reader and Head of the Department of Education of the Univ., with a view to giving instruction in the art of teaching of English to school teachers. The University MSS. Committee (Bengali and Sanskrit Section) have already collected about 12,000 valuable Sanskrit and Bengali manuscripts. They have published the first number of their Oriental Text Series this year, the *Kichaka-vadha Kavya*, a Sanskrit text written as far back as the tenth or eleventh century A.D. Another Committee has been appointed this year for the collection of Arabic, Persian, Urdu and Punthi manuscripts and a sum of Rs. 5000 has been sanctioned for the purpose.

**EXTRA-MURAL WORK.** As in previous years, a series of public lectures were delivered by members of the teaching staff of the Univ.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. G. Tucci of the Univ. of Rome resided in the University area for some time and delivered a course of three lectures on (1) "The Routes from China to India," (2) "Western Tibet (Ladak) as I saw it," and (3) "Monasteries and Lamaism." Sir P. C. Ray, Kt., C.I.E., D.Sc., of the Univ. of Calcutta, delivered two lectures in January last on (1) "A Century of Synthetic Chemistry," and (2) "Chemical Constitution and Physiological Properties of Drugs." Prof. D. S. Margoliouth, M.A., D.Litt., Laudian Professor of Arabic in the Univ. of Oxford, delivered a public lecture in Feb. 1929 on "The General Characteristics of Arab Historical Writing."

**STUDENTS.** Full-time: total, 1311, including 708 graduates. Part-time, 154.

**DEGREES.** B.A., 109; M.A., 46; B.Sc., 62; M.Sc., 24; B.Com., 16; B.T., 71; B.L., 112; B.T., 1; M.T., 1.

# UNIVERSITY OF DELHI

CHANCELLOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

PRO-CHANCELLOR—HON. KHAN BAHADUR SIR MUHAMMAD HABIBULLAH,  
K.C.S.I., K.C.I.E., LL.D.

VICE-CHANCELLOR—RAI BAHADUR MOTI SAGAR, B.A., LL.B. Panjab.

TREASURER—RAI BAHADUR RAM KISHORE, B.A., LL.B. Panjab.

REGISTRAR—N. K. SEN, M.A. Calcutta.

APPOINTED (\*) AND RECOGNIZED TEACHERS OF THE UNIVERSITY,  
for classes above Intermediate standard.

(S.), (H.), (R.) denote St. Stephen's, Hindu, Ramjas Colleges respectively.

## *Arabic, Persian, and Urdu*

Rahman, A., Maulvi Fazil, Munshi Fazil (S.).  
Verma, A. N., M.A. Calc. (H.).  
Ali, Syed Azhar, M.A., M.O.L., Munshi Fazil (Panj.) (S.).  
Lal, P., Munshi Fazil (Panj.) (R.).  
Fazl-i-Haq, M., M.A., M.O.L., Maulvi Fazil, Munshi Fazil.

## *Chemistry*

Laroia, B. D., B.A. Ox., B.Sc. Panj., Ph.D. Lond.  
Univ. Reader,\* Head of Dept.  
Mitra, J. N., M.Sc. (S.).  
Aggarwal, A. L., M.Sc. (H.).  
Goel, M. L., M.Sc. (R.).

## *Economics*

Chabiani, H. L., M.A. Bom.  
\* Head of Dept.  
Ghosh, H. C., M.A. (R.).  
Hirde Narain, M.A. (H.).  
Nag, K. C., M.A. (S.).  
Shamji, M., M.A. (R.).

## *English and History*

Bali, H. C., M.A. (H.).  
Bhattacharya, A., M.A. Ox. (H.).  
Capron, R. S., B.A. Camb. (S.).  
Dayal, S., M.A. Panj. (H.).  
Mitra, C. C., M.A. (R.).  
Gupta, B. B., M.A. (R.).  
Sen, M. N., M.A. (R.).  
Monk, F. F., M.A. Ox. (S.).

Winsor, F. G., M.A. Camb. (S.).  
Sen, S. K., M.A. Ox. (H.).  
Spear, T. G. P., B.A. Camb. (S.).  
Young, C. B., M.A. Ox. (S.).  
Rahman, A., Maulvi Fazil (S.).  
Mukerji, A. K., M.A. Calc. (H.).  
Gupta, S. C., M.A. Calc. (H.).  
Ghosh, D. N., M.D. (R.).  
Das, Ram Saran, M.A. (R.).  
Rai, Ganpat, M.A. (H.).  
Bhandari, D. B., B.A. Lond. (R.).

## *Law*

Shahani, M. S., M.A. Ox., Barr.-at-Law\* Lectr.  
Kishore, J., B.A., LL.B., Vakil Lectr.\*  
Swarup, B., B.A., LL.B., Vakil Lectr.\*  
Rahman, Khan Bahadur Abdur, B.A., LL.B. Dean.  
4 other Hon. Readers.

## *Mathematics*

Avadh Behari Lal, M.A. (R.).  
Bannerji, A. T., M.A. Calc. (H.).  
Mitra, J. N., M.A. (R.).  
Mukerji, S. N., M.A. Panj., B.A. Camb. (S.).  
Ram Behari, M.A. Panj., B.A. Camb. (S.).  
Ram, Sita, M.A. Panj. (R.).  
Ram, Sri, M.A. Panj. (H.).

*Persian, v. Arabic*

<i>Philosophy</i>	[Head of Dept.	Sant Ram, M.Sc.	(S.).
Sen, N. K., M.A. Calc.*		Das, R., M.Sc.	(R.).
Mitra, C. C., M.A., B.L. Calc. (H.).		<i>Sanskrit</i>	
Bannerji, N. V., M.A. Calc. (R.).		Har Narain, M. M. Pandit, Shastri	
Hirde Narain, M.A. (H.).		(Panj.)	(H.).
Leigh, M. S., M.A. Ox. (S.).		Lachhmi-Dhar, M.A., M.O.L.,	
<i>Physics</i>		Shastri (Panj.)	(S.).
Khub Ram, M.A. Panj., M.Sc.		Chaudhri, N. N., M.A.	(R.).
Leeds		Kaul, K. N., M.A., M.O.L. Panj.	
Univ. Reader,* Head of Dept.			(H.).
Puri, A. N., M.Sc. Panj. (H.).		Ganga Ram, B.A.	(R.).
Singh, T., M.Sc. Demr.		<i>Urdu, v. Arabic</i>	

## GENERAL INFORMATION

The three constituent colleges, formerly affiliated to the Univ. of the Panjab, were united to form a teaching and residential Univ. (Govt. of India Act, No. VIII. of 1922), with effect from May 1, 1922. Subsequently four Intermediate Colleges, three for boys and one for girls, were recognized as Constituent Colleges of the Univ., namely: The Anglo-Arabic, Ramjas Intermediate, Commercial, and Indraprastha (girls'). The authorities of the Univ. are a Court, an Executive Council, an Academic Council, and Faculties and Boards of Studies. The Univ. does not itself hold a Matricn. Examn. As a temporary measure, it admits students who have passed the matricn. examns. of other Indian Univs., but will eventually admit only those who have passed the Intermediate (Arts or Science) examn.

FACULTIES and Deans : Arts, H. L. Chablani ; Science, Khub Ram ; Law, Khan Bahadur Abdur Rahman.

DEGREES. B.A., B.Sc., M.A., LL.B., LL.M., LL.D. A two years' honours course is offered in most of the Arts subjects.

AVERAGE HOSTEL EXPENSES, Rs. 20 p.m.

PUBLICATIONS. *Calendar*, Rs. 3 ; *Prospectus of Studies* ; *Question Papers* ; *Annual Report and Annual Accounts* ; *Minutes* ; Convocation Addresses by Chancellor and Vice-Chancellor.

## THE YEAR 1928-29

BENEFACTION. Pt. Hiralal Bhargava, Retd. Inspector of Schools, gave Rs. 900 for a prize to be awarded on the result of the B.A. examn. to Bhargava students.

NEW COLLEGES. Two of the Intermediate Colleges have been given permission to open degree classes for special reasons, the Anglo-Arabic Intermediate College for the education of the Muhammadan community ; the Commercial Intermediate College for the teaching of commercial subjects at present not provided for.

OTHER DEVELOPMENTS. The University Inquiry Committee appointed by the Govt. of India in 1927 has recommended the present Viceregal Lodge, when vacated, as the permanent home of the University. The Committee has also recommended among other things that the Intermediate classes should not be separated from the University for reasons both academic and financial. The Matriculation examn. would therefore continue to be the admission test to the University.

STUDENTS. Full-time, 1444, including 192 graduates.

DEGREES. Arts : B.A. (Pass), 110 ; B.A. (Hons.), 30 ; M.A., 19 ; Science : B.Sc., 21 ; Law : LL.B., 42.

# UNIVERSITY OF LUCKNOW

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR—M. B. CAMERON, M.A., B.Sc., D.Litt.

TREASURER—S. M. HABIBULLAH, O.B.E., B.A., M.L.C.

REGISTRAR—R. R. KHANNA, M.Sc.

LIBRARIAN—WALI MOHAMMAD, M.A., Ph.D., I.E.S.

## PROFESSORS, LECTURERS, ETC.

### KING GEORGE'S MEDICAL COLLEGE

*Principal*—Lt.-Col. H. STOTT, O.B.E., M.D., B.S., M.R.C.P.,  
D.P.H. Lond., I.M.S.

#### *Anatomy*

Nat, Capt. B. S., M.B., Ch.B. St.  
And., L.R.C.P. Lond., F.R.C.S.  
Eng., I.M.S. Prof.  
Goil, Capt. J. N., M.B., B.S. All.  
Lectr.  
2 Demrs.

#### *Pharmacology & Med. Jurispr.*

Vyas, B. N., R.B., M.B. Panj.  
Reader.  
Modi, J. P., R.B., L.R.C.P. & S  
Edin., L.F.P. & S. Glas.  
Reader.

Bhatia, B. B., M.D., B.S. Luck.,  
M.R.C.P. Lond. Lectr.  
1 Demr.

#### *Medicine*

Burke, Lt.-Col. G. T., M.D.,  
M.R.C.P. Lond., I.M.S. Prof.  
Sahai, H., M.B., B.S. Panj.  
Lectr. and Regr.

#### *Obstetrics and Gynaecology*

Buckley, Lt.-Col. H. C., F.R.C.S.E.,  
M.D. Glas., I.M.S. Prof.  
Siret, Miss A., M.B. Calc., L. M.  
Rotunda Lectr.

#### *Ophthalmology*

Acharya, B. G. S., B.A., M.B.,  
C.M. Madras, L.R.C.P. Lond.,  
F.R.C.S. Edin., M.R.C.S.  
Eng., D.O. Ox. Prof.

Misra, C. P., L.M.S. Panj. Lectr.

#### *Pathology*

Stott, Lt.-Col. H., O.B.E., M.D.,  
B.S., M.R.C.P., D.P.H. Lond.,  
I.M.S. Prof.\*  
Mukerji, Capt. J. G., R.B., L.M.S.  
Panj. Reader.  
Hamid, M. A., M.B., B.S. All.,  
M.R.C.P. Lond. Lectr.  
2 Demrs.

#### *Physiology*

Burridge, W., M.A., D.M., B.Ch.  
Ox. Prof.  
Mathur, S. N., M.B., B.S. All. Lectr.  
2 Demrs.

#### *Public Health*

Pandya, D. D., R.B., L.R.C.P. &  
S. Edin., L.R.F.P. & S. Glas.,  
D.P.H. Camb. Prof.

Trivedi, H. G.  
Lectr. (San. Engineering).  
Mathur, H. G. D., B.Sc., M.B.,  
B.S. All., M.R.C.P. Edin.,  
D.T.M. Lond., D.P.H. Johns  
Hopkins Lectr. (Hygiene).

#### *Radiology*

[Reader.  
Lal, Ragunandan, M.B., B.S. Panj.

\* Dean.

<i>Surgery</i>	Kacker, P. C., M.B., F.R.C.S.
Bhatia, R. N., R.B., B.A., B.Sc.	Edin. Lectr. and Regr.
All., M.B. Punj., F.R.C.S.	Pramanick, R. D., B.Sc., M.B.
Edin. Prof.	B.S. Lectr. (Anæ.),
Nigam, K. S., M.D. All., F.R.C.S.	..... Lectr. (Dentistry).
Eng., D.T.M. Lond. Reader.	

## CANNING COLLEGE (ARTS AND SCIENCE)

Principal—S. B. Smith, M.A. Ox.

<i>Arabic</i>	.....	Reader.
Siddiqi, M. Z., M.A. Patna, Ph.D.	Roy, F. T., M.A. All.	Lectr.
Camb. Reader.	Sreshta, R. R., B.A., LL.B. Camb.	Lectr.
Khalil Mohd. Ibn Arab, Maulvi	Roy, C. G., M.A. All.	Lectr.
Lectr.	Bhattacharya, A. T., M.A.	Jr. Lectr.
<i>Botany</i>	Ameer Ali, Syed, M.A., B.L. Calc.	Jr. Lectr.
Sahni, Birbal, M.A., Sc.D. Camb.,	Mitra, D., M.A.	Jr. Lectr.
D.Sc. Lond., F.G.S. Prof.	<i>History (Eur. and Indian)</i>	
Mukerji, S. K., M.Sc. All., D.Sc.	The Principal Prof. (Europ. H.).	
Lond., F.L.S. Reader.	Mookerji, R. Kumud, M.A., Ph.D.	
Chaudhury, H. P., M.Sc. Panj.	Calc. Prof. (Indian H.).	
Lectr.	Banerji, S. K., M.A., L.T. All.,	
2 Demrs.	Ph.D. Lond. Reader.	
<i>Chemistry</i>	Das Gupta, S. N., M.A. Lond.	
MacMahon, P. S., M.Sc. Manc.,		Lectr.
B.Sc. Ox. Prof.	Chatterji, C. D., M.A. Calc. Lectr.	
Gupta, B. M., M.Sc. All., Ph.D.	Chatterji, N. L., M.A. All. Lectr.	
Lond., A.I.C., D.I.C. Reader.	<i>Mathematics</i>	[Prof.]
Sane, S. M., B.A., B.Sc. All., M.A.,	Strang, J. A., M.A., B.Sc. Edin.	
Ph.D. Berlin, F.C.S. Reader.	Narayan, Lakshmi, M.A., D.Sc.	
Raman Nayar, M., B.A. Madras,	All. Reader.	
A.I.I.Sc. (Bang.) Lectr.	Banerji, S., M.A. Calc. Lectr.	
Chatterji, A. C., D.Sc. All. Lectr.	Singh, A. N., M.Sc. All. Lectr.	
2 Demrs.	<i>Modern European Languages</i>	
<i>Economics</i>	Holdaway, N. A., M.C., B.Sc.	
Mukerjee, R. Kamal, M.A., Ph.D.	Lond. Lectr. in French.*	
Calc. Prof.	<i>Persian and Urdu</i>	
Mukerji, B. B., M.A., B.L. Calc.	Rehman, M.B., M.A. Panj., Ph.D.	
Reader.	Camb. Reader.	
Dey, H. L., M.A. Calc. Lectr.	Abdul Qavi Fani, Md., M.A. All.	
Mukerji, D. P., M.A. Calc. Lectr.	Lectr.	
Majumdar, D. N., M.A. Calc.	Faruqi, M., M.A., LL.B., Dabir-i-	
Lectr.	Kamil Luck. Lectr. (offg.).	
<i>English</i>	Head of Department.	
Sidhanta, N. K., M.A. Camb. and		
Calc. Prof.		
Brander, L. R. M., M.A. Edin.		
Reader.		

- Fiqar, B. N., Munshi Lectr.  
 Rizavi, M. H. Syed, M.A. Luck. Lectr. (Urdu).  
*Philosophy*  
 Sen Gupta, N. N., M.A., Ph.D. Harv. Prof.  
 Ahmad Shah, E., M.A. All., B.Litt. Ox. Reader.  
 Kali Pershad, M.A., LL.B. All. Lectr.  
*Physics*  
 Wali Mohammad, M.A. Panj., Ph.D. Gött., I.E.S. Prof.\*  
 Deodhar, D. B., M.Sc. All. Ph.D. Lond., F.P.S. Reader.  
 Ray, S. N., M.Sc. All. Lectr.  
 1 Demr.  
*Political Science*  
 Ram, V. S., B.A. California, M.A., Ph.D. Harv., F.R.H.S. Reader.  
 Menon, V. K. N., B.A. Mad., B.A. Ox. Lectr.  
 Asirvatham, E., B.A. Mad., B.D. U.S.A., Ph.D. Edin. Lectr.  
*Sanskrit and Hindi*  
 Iyer, K. A. Subramanya, M.A. Lond. Reader.  
 Shastri, B. N., Pt. M.A. All. Lectr.  
 Thakur, A. D., Pt. M.A. All. „  
 Srivastava, S. R., M.A., LL.B. Lectr.  
 Bhatt, B. N., Pt. B.A. All. Lectr. (Hindi).  
*Zoology*  
 Bahl, K. N., M.Sc., D.Sc. Panj., Ph.D. Ox. Prof.  
 Thapar, Sardar Govind Singh, M.Sc. Panj., Ph.D. Lond. Reader.  
 Bhatia, M. L., M.Sc. Panj. Lectr.  
 2 Demrs.

## ISABELLA THOBURN COLLEGE (WOMEN)

Principal—Miss Mary E. Shannon, M.A.

- Botany*  
 Oldroyd, Miss R., M.A. Kansas State Teacher.  
*Chemistry*  
 Wallace, Miss M., B.A. Minnesota, M.A. Columbia Teacher.  
 Roy, S. C., M.Sc. Teacher.  
*English*  
 Dimmitt, Miss M. A., M.A. De Pauw. Reader.  
*European History* [Reader.  
 Vincent, Miss S. I., M.A. Harv.  
*Persian*  
 Baij Nath Fiqar, Munshi Lectr.  
*Philosophy*  
 Venkataratnam, Miss B., M.A. Mad. Teacher.  
*Political Science*  
 Manchester, Miss R. C., M.A. Byrn. Mawr. Reader.  
*Sanskrit* [Lectr.  
 Srivastava, S. R., M.A., LL.B.  
*Zoology*  
 Thillayampalam, Miss E., M.Sc. All. Reader.

## FACULTY OF COMMERCE

- Das Gupta, B. N., B.A. Calc. Reader.†  
 Chatterji, B. N., M.A., B.L. Calc. (Economics) Reader.  
 Gupta, O. P., B.A. Ben., B.Sc. Lond. (Economics) Lectr.  
 Pant, D., B.Com. Bom., Ph.D. Dub. (Commerce) Lectr.  
 Ahmad Husain Saiyid, B.Com. (Commerce) Lectr.

\* Dean, Fac. of Sci.

† Dean.

## FACULTY OF LAW

Chak, Pt. J. N., B.A. Ox., Barr-at-Law (Dean)	Reader.	Hajela, K. S., M.A., M.Sc., LL.B. All., LL.M. Bom.	Reader.
Husein, Hyder, B.A. Ox., LL.B. Dub., Barr.-at-Law	Reader.	Ghulam, Hasan, B.A. Panj., LL.B. All.	Reader.
Misra, J. N., B.A., LL.B. Camb., M.A., LL.D. Dub., Barr.-at-Law	Reader.	Misra, L. S., M.A. Camb., LL.B. Camb. and Dub., Barr.-at-Law	Reader.

## ORIENTAL DEPARTMENT

Maulvi Syed Ali Asghar ; Maulvi Mustafa Hasan Alavi ; Pandit G. C. Avasthi.

## GENERAL INFORMATION

This residential and teaching Univ. was established under an Act of the Provincial Legislature passed in Nov. 1920. The authorities of the Univ. include a Court, Executive Council, Academic Council, Committee of Reference, and Faculties.

FACULTIES. Arts, Science, Medicine, Law, Commerce.

LIBRARY. 36,348 vols.

ADMISSION. Qualifications for Degree courses: Arts or Science—the Intermediate Examn. of an Indian Univ. or of the Board of High School and Intermediate Education, U.P., and the Cambridge Higher School Certificate Examn.—Certificate “A”; Law—Degree in Arts or Science; Commerce—Commerce Diploma Certif. of Allahabad or of the Panjab; Med.—Degree in Science of All., Benares, Bom., Calc., Dacca, Delhi, Mad., Mys., Panj., Patna, or Rangoon taken with Chem. and Biol. as optional subjects, or, subject to certain conditions, the Inter. or P.Sc. Examn. of All., Alig., Benares, Nagpur, or Inter. Board of Ed., U.P.

DEGREE COURSES for B.A. Pass, B.Sc. Pass, B.Com., 2 yrs.; B.A. Honours, B.Sc. Honours, 3 yrs.; M.A., M.Sc., 2 yrs. or (after B.A. Hons. or B.Sc. Hons.) 1 yr.; LL.B., 2 yrs.; M.B., B.S., 5 yrs.; D.Sc., 3 yrs.; Ph.D., 2 yrs. The lectures are supplemented by tutorial work

DIPLOMAS. Courses in Public Health, Teaching, Arabic, and Persian.

FEES for tuition for full course: B.A., Pass, or B.Com., Rs. 216; M.A., Rs. 270; M.B., B.S., Rs. 650; B.Sc. Pass, Rs. 252; B.A. Honours, Rs. 324; B.Sc. Honours, Rs. 378; M.Sc., Rs. 150 (for 1 yr.'s course) or Rs. 300 (for 2 yrs.' course); LL.B., Rs. 240; D.Sc., Rs. 675.

RESIDENCE. Students are required, unless specially exempted, to live in hostels, King George's Medical Coll. and Canning Coll. for men; Isabella Thorburn Coll. for women.

ADULT EDUCATION. A system of public lectures by members of the staff and others has been started.

PUBLICATIONS. *Abstracts of Publications by Staff and Students, 1921-27; Calendar, Annual Report.*

FINANCE. The University receives a recurring grant of Rs. 11,48,000 from the Provincial revenues out of which a sum of Rs. 2,71,000 is for the Hospital

maintained in connexion with the King George's Medical College. The other income of the University consists of interest on endowments and subscriptions, plus fees aggregating in all Rs. 4,35,000 per annum.

### THE YEAR 1928-29

**BENEFACTIONS.** Tulsi Narain Trust Lucknow Scholarship of Rs. 5 per month ; Raja Sahib of Kalakankar, 2 scholarships, one of the value of Rs. 6 per month and another of the value of Rs. 15 per month.

**NEW BUILDINGS.** Chemistry Laboratory completed at a cost of Rs. 3,00,000 ; equipment ordered. Four residential bungalows.

**DEVELOPMENT.** New posts : Lecturers in Economics, Chemistry, Physics, Mathematics, Midwifery, Experimental Pharmacology, Political Science, and Hygiene ; Demonstrators in Physiology and Pathology.

**FELLOWSHIPS AND FREE STUDENTSHIPS.** The value of the 7 Fellowships created in 1925 was raised to Rs. 100 a month. The number of free Studentships has been increased to approximately 5 per cent of the number of students in each Faculty, except Law, where about 3 per cent are free.

**RETIREMENT.** Lt.-Col. Hunter, Professor of Gynæcology and Obstetrics.

**VISITS OF PROFESSORS OF OTHER UNIVERSITIES.** Prof. A. P. Newton, Rhodes Prof. of Hist. in the Univ. of Lond., delivered three lectures in December 1928.

**STUDENTS.** Full-time, 1619, including 635 graduates.

**PHYSICAL TRAINING.** All undergraduates are required to undergo physical training.

**DEGREES.** B.A., 111 ; M.A., 45 ; B.Sc., 31 ; M.Sc., 24 ; M.B., B.S., 37 ; D.P.H., 8 ; M.D., 1 ; LL.B., 157 ; B.Com., 20.

# UNIVERSITY OF MADRAS

(No return made for 1928-29)

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION.

VICE-CHANCELLOR—DIWAN BAHADUR K. RAMUNNI MENON, M.A.  
Camb.

REGISTRAR—WILLIAM McLEAN, M.A., B.L., F.C.I.S.

LIBRARIAN—S. R. RANGANATHAN, M.A., L.T.

## UNIVERSITY PROFESSORS

<i>Indian History and Archæology</i>	<i>Sanskrit</i>
Ayyangar, Rao Bahadur S. Krishnaswami, M.A., Ph.D. (Calc.).	Raja, C. Kunhan, M.A., D.Phil. Prof.
<i>Mathematics</i>	<i>Indian Economics</i>
Vaidyanathaswami, R., M.A., D.Sc. Reader.	Thomas, P. J., M.A., B.Litt., Ph.D. Lokanathan, P. S., M.A., Dip. Econ. Reader. Ramakrishnan, K. C., M.A. Dip. Econ. Lectr.
<i>Indian Philosophy</i>	
Sastri, S. S. Suryanarayana, M.A., B.Sc., Barr.-at-Law Reader.	

## GENERAL INFORMATION

This Univ., founded in 1857, was reorganized in 1923 as a Teaching and Residential Univ., and it continues to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the Univ. include a Senate, Syndicate, Academic Council, Faculties, Boards of Studies, and a Council of Affiliated Colleges.

From the Govt. of Madras the Univ. receives an annual statutory grant of Rs. 85,500.

The following research institution is attached to the University: The Institute of Advanced Oriental Studies and Research. This provides for three sections, viz., Sanskrit, Dravidian, and Islamic. It comprises sixteen research workers and about twelve students.

Laboratories for research in Zoology, Botany, and Bio-chemistry are about to be built.

FACULTIES. Arts, Science, Law, Medicine, Engineering, Teaching, Agriculture, Commerce, and Fine Arts.

ADMISSION. The Matricn. examn. has been almost completely superseded by the School-Leaving Certif. scheme.

DEGREES, ETC. B.A., B.Sc., B.A. (Honours), B.Sc. (Honours), M.A., Ph.D., M.Sc., D.Sc.; B.Sc.Agr.; L.T.; B.L., M.L., LL.D.; M.B. and B.S., L.M. and S., B.San. Sc., M.D., M.S.; D.G.O.; B.E.; M.O.L. (Oriental Learning).

DIPLOMAS. Titles in Oriental Learning (4 yrs.' course); Economics (part-time course—2 yrs.). CERTIFICATES of Proficiency in Oriental Learning (2 yrs.').

RECOGNITION of examns. of other Univs. is not granted in general terms. The Syndicate deals with each application on its merits.

FEES for Univ. examns. range from Rs. 10 to Rs. 150.

RESIDENCE, ETC. Minimum cost of board and lodging for students living in European style, Rs. 50 p.m.; for Indians, Rs. 30. A Students' Club, started under the auspices of the Madras Govt. in 1919, provides inexpensive meals and facilities for games and social intercourse irrespective of caste or creed.

RESEARCH STUDENTSHIPS, tenable 2 or 3 yrs., value Rs. 75 to Rs. 100 p.m. FELLOWSHIPS, Rs. 150 to Rs. 250 p.a.

PUBLICATIONS. *Calendar* (July)—vol. i., Administration, Statutes, Ordinances and Regns., Syllabuses; vol. ii., Constituent and Affid. Colls., Endowments, Graduates; *Annual Report*; *Minutes*; *Madras Univ. Magazine*; *Tamil Lexicon* (under preparation).

## COLLEGES RECOGNIZED OR AFFILIATED IN DEGREE COURSES

### Arts and Science

ALWAYE, *Union Christian College*. Principal—A. M. Varki, M.A., B.L. 21 other Teachers.

BANGALORE, *St. Joseph's College*. Principal—Rev. F. Veysseyre. 16 other Teachers.

CHANGANACHERRY, *St. Berchman's College*. Principal—Rev. P. K. Matthew, M.A. 22 other Teachers.

CHIDAMBARAM, *Sri Minakshi College*. Principal—K. A. Nilakantasastri, M.A. 28 other Teachers.

ERNAKULAM, *Maharajah's College*. Principal—S. K. Subrahmanya Ayyar, M.A., L.T. 32 other Teachers.

HYDERABAD, *Nizam College*. Principal, and Prof. of *English and Ancient Hist.*—K. Burnett, M.A. Ox.; B. C. McEwen, B.Sc. (Ag.). 23 other Teachers.

KUMBAKONAM COLLEGE (Govt.). Principal—M. C. S. Anantapadmanabha Rao, M.A., L.T. 20 other Teachers.

MADRAS, *Christian College*. Supported by the Church and U.F. Church of Scotland and 5 other Missionary Societies. Principal—W. Meston, M.A., D.D. Professors: *Chemistry*—E. Barnes, B.Sc. *English Lang. and Literature*—F. W. Henderson, M.A.; G. Matthews, M.A., B.Litt.; W. L. Campbell, B.A.; W. Meston, M.A., D.D. (Principal); A. J. Boyd, M.A. *History*—F. E. Corley, M.A.; E. J. Bingle, B.A. *Maths.*—E. B. Ross, M.A.; W. F. Kibble, B.A. *Philosophy*—A. G. Hogg, M.A., D.Litt.; A. S. Woodburne, M.A., B.D., Ph.D.; S. J. Theodore, M.A., B.D., B.Litt.; B. E. Cornelius, M.A., B.D., Ph.D. *Phys. Sc.*—J. P. Manikkam, M.A., L.T.; A. V. Moses, M.A., Ph.D. *Nat. Sc.*—M. S. Sabhesan, M.A. (Botany); C. Lakshminarayanan, M.A. (Zoology). 30 other Teachers.

MADRAS, *Muhammadan College* (Govt.). For Muhammadans. Principal and Lectr. in *Engl.*—E. W. Green, M.A. 10 other Teachers.

MADRAS, *Pachaiyappa's College*. For Hindus. Principal—K. C. Pillai, B.A., L.T. 34 other Teachers.

MADRAS, *Presidency College* (Govt.). Principal, and Prof. of *Botany*—P. F. Fyson, M.A.; W. Erlam Smith, M.A. Other Profs.: *Bot.*—M. O. Parthasarathi Ayyangar, M.A., L.T. *Chem.*—B. B. Dey, D.Sc. Lond., F.I.C. *Engl.*—W. C. Douglas, M.A.; S. E. Ranganathan, M.A., L.T.; D. S. Sarma, M.A., L.T.

*Geol.*—C. K. Krishnaswami Pillai, M.A., M.Sc. *Hist.*—J. Franco, M.A. *Maths.*—K. Ananda Rao, B.A.; S. R. U. Savour, B.A., D.Sc., F.Inst.P. *Philosophy*—A. Chakravarti, M.A., L.T. *Physics*—H. Parameswaran, M.A., Ph.D., D.Sc.; V. Appa Rao, M.A., L.T. *Economics*—T. K. Duraiswami Ayyar, M.A., L.T. (acting). *Sansk.*—S. Kuppuswami Sastri, M.A. *Zool.*—S. M. Ramaniyam, M.A., Ph.D. 37 other Teachers.

MADRAS, *Loyola College*. Principal—F. Bertram, S.J., B.A., D.D.

MADRAS, *Queen Mary's College*. Principal—Miss de la Hey. 11 other Profs. and Lecturers and 6 Pandits.

MADRAS, *Women's Christian College*. Principal, and Prof. of *Ancient Hist.*, etc.—Miss E. McDougall, M.A., D.Litt. Vice-Principal, and Prof. of *Phys.*—Miss E. M. Coon, M.A.

MADURA, *American College* (Mission). Ag. Principal—Peter Isaac, B.A., L.T. Heads of Depts.: *Engl.*—James M. Hess, M.A., B.D. *Hist. and Econ.*—A. J. Saunders, M.A., B.D., Ph.D. *Physics and Chem.*—E. M. Flint, M.A., B.Sc. 24 other Teachers.

MADURA, *The Madura College*. Principal—M. V. N. Subba Rao, M.A.

MANGALORE, *St. Agnes' College*. Principal—Sister M. Annunciata, A.C., B.A.

MANGALORE, *St. Aloysius' College* (S. J.). Principal—Rev. A. Ambruzzi, S.J., M.A., D.D. 24 other Teachers.

MANNARGUDI, *Findlay College* (Wesleyan Mission). Principal, and Prof. of *Engl.*—Rev. R. Smailes, M.A. 13 other Teachers.

PALAMCOTTAH, *St. Xavier's College*. Principal—A. Guanapragasam, B.A., S.J.

PALGHAT, *Victoria College* (Govt.). Principal—H. C. Papworth, M.A.

TINNEVELLY, *Hindu College*. Principal—P. C. Chakko, M.A.

TRICHINOPOLY, *National College*. Principal—V. Saranatha Ayyangar, M.A.

TRICHINOPOLY, *St. Joseph's College* (S.J.). Open to all creeds and classes, but primarily for R.C.'s. Principal—A. Bonhoure. Prof. of *English*—C. Leigh. Profs.: *Bot. and Phys.*—E. Gombert. *Chem.*—A. Haas, S.J.; A. Camboulives. *Econ.*—P. Carty. *Hist.*—A. Saldanha and J. Steenkiste. *Maths.*—C. Pruvôt. *Phys.*—D. Honoré; P. E. Subrahmanya Aiyar, M.A. *French*—J. Bourdot. *Latin*—The Rector. 30 other Teachers.

TRICHINOPOLY, *Bishop Heber College*. Principal and Warden—M. Koilpillai, M.A., L.T. (Ag.). 27 Profs. and Lectrs.

TRICHUR, *St. Thomas' College*. Principal—Rev. John Palocaren, M.A.

TRIVANDRUM, *Maharaja's College of Arts*. Founded 1924. Principal—Rao Bahadur K. V. Rangaswami Ayyangar, M.A. 11 Profs. and Lectrs., 13 Tutors and Pandits.

TRIVANDRUM, *Maharaja's College of Science*. Principal, and Prof. of *Botany*—J. Pryde, M.A., B.Sc., F.L.S. (Ag.). 43 other Teachers.

TRIVANDRUM, *Maharaja's College for Women*. Principal—Miss E. C. Carrapiett, M.A. (Ag.).

### Teaching

MADRAS, *Teachers' College* (Govt.). Principal—H. Champion, M.A. 22 other Teachers.

MADRAS, *Lady Willingdon Training College*. Principal—Miss J. M. Gerrard, M.A. 17 other Teachers.

MADRAS, *St. Christopher's Training College*. Principal—Miss K. N. Brockway, M.A.

TRIVANDRUM, *Training College*. Principal—Rao Bahadur K. V. Rangaswami Ayyangar, M.A. 11 other Teachers.

### Law

MADRAS, *Law College* (Govt.). Principal—M. Ratnaswami, M.A., Barr.-at-Law. 12 Asst. Lecturers.

TRIVANDRUM, *Maharaja's Law Coll.* Principal—E. Jacob John, B.A., B.L. Senr. Profs.—M. K. Govinda Pillai, B.A., B.L.; M. K. Narayana Pillai, B.A., Barr.-at-Law. 8 Junr. Profs.

### Medical

MADRAS, *Medical College* (subject to the authority of the Surg.-Genl. with the Govt. of Mad.). Its certifs. are recognized by the Colls. of Surgs. of Eng., Scot., and Irel. Principal—Lt.-Col. G. A. F. Hingston, C.I.E., O.B.E., M.R.C.S., I.M.S. Other Professors: *Anat.*—Rao Sahib T. Sundara Reddy, F.R.C.S.I. *Hyg.*—Capt. A. M. V. Hesterlow, I.M.S. *Therap.*—M. R. Guruswami Mudaliyar, M.D., C.M. *Med. Jurispr.*—Lt.-Col. W. C. Gray, I.M.S. *Midw.*—The Principal. *Ophth.*—Lt.-Col. R. E. Wright, I.M.S. *Path.*—Capt. P. N. Basu. *Physiol.*—Major G. E. Malcomson, M.D., D.P.H., I.M.S. (on other duty); B. T. Krishnan. *Surg.*—Lt.-Col. E. W. C. Bradfield, C.I.E., O.B.E., M.S., I.M.S. *Biol.*—J. S. Rao, M.A. *Chem.*—Major C. Newcomb, I.M.S. *Bio-Chem.*—A. S. Mannadi Nayar, M.B., B.S., Ph.D. *Op. Surg.*—Major K. G. Pandalai, F.R.C.S., I.M.S. *Med.*—Lt.-Col. G. E. Malcomson, I.M.S. *Bact.*—P. S. Ramakrishnan, L.R.C.P. & S. *Dental Surg.*—J. B. Chenoy. *Mental Dis.*—H. S. Hensman, L.R.C.P. *Venereal Dis.*—D. Kanasabhesan, M.S. *Diseases of Nose, Ear, and Throat*—P. V. Cheriyan, M.B. and B.S., F.R.C.S.E. *Pharmacology*—J. C. David, M.B. 25 Assts.

### Engineering

MADRAS, *College of Engineering*. Principal—G. Nagaratnam Ayyar, B.A., B.E. Profs.: *Civil E.*—K. G. Chakko, D.Sc. *Mech.E.*—T. S. Venkataraman, B.E. *Elec. E.*—P. Subba Rao, B.A., A.M.I.E.E. *Maths.*—K. R. Ramaswami Ayyangar, M.A., L.T. *Technical Chem.*—P. Narayana Goud, M.A., B.Sc. (on leave); M. Damodora Kini (Ag.). 19 Instructors.

### Agriculture

COIMBATORE, *Agricultural College and Research Institute*. Principal—G. Tadulingam Mudaliyar, F.L.S., and 24 other Teachers and Investigators.

### Oriental Learning

One Sanskrit College in Madras and fourteen in other towns are recognized as qualified to provide instruction for the Oriental Titles.

## THE YEAR 1927-28

BENEFACTIONS. Rs. 4,893 towards Lectureships, Studentships, etc.

STUDENTS. Full-time: total, 16,585.

DEGREES. M.L., 8; B.L., 278; M.B. and B.S., 41; L.M. and S., 30; B.E., 36; B.Sc., 8; B.Sc.Ag., 8; L.T., 190; M.A., 108; B.A., 1560; Titles in Oriental Learning, 70; Diploma in Economics, 10.

# UNIVERSITY OF MYSORE

CHANCELLOR—H.H. THE MAHARAJA OF MYSORE.

PRO-CHANCELLOR—H.H. SRI NARASIMHA RAJA WADIYAR, G.C.I.E.,  
Yuvaraja of Mysore.

VICE-CHANCELLOR—RAJATATRAPRAMIA SIR BRAJENDRA NATH SEAL,  
Kt., M.A., Ph.D., D.Sc.

REGISTRAR—B. M. SRIKANTIA, M.A., B.L.

LIBRARIAN—N. NARASIMHAMURTHI, M.A., B.L.

(U.) = Univ. Professor.

## PROFESSORS, ETC.

### *Archæology*

Iyengar, Krishna, M. H., M.A.,  
D.Lit. Director.

### *Botany*

Sampatkumaran, M.A., Ph.D.,  
S.M. Chic. Prof.  
1 Asst. Prof., 3 Lectrs., 4 Demrs.

### *Chemistry*

Sanjiva Rao, B., M.A., Ph.D.  
Lond. Prof.  
Manjanath, B. A., M.Sc. Lond.,  
Ph.D. Ox. Prof.  
4 Asst. Profs., 8 Lectrs., 7 Demrs.

### *Education*

Krishnaiya, G. S., B.A. Mad.,  
M.A., Ph.D. Colum.  
1 Asst. Prof., 1 Lectr.

### *Engineering* [Prof. (Civ. E.).

Lakshminarasappa, S. H., B.A.,  
B.M.E., B.C.E., B.Arch. (Prin-  
cipal, College of Engineering)  
Ramaswamy, E. K., B.Sc. Lond.,  
A.C.G.I. Prof. (Mech. E.).  
7 Asst. Profs., 3 Lectrs., 2 In-  
structors, 1 Lab. Asst.

### *English*

Mackintosh, A. B., M.A. Ox., M.A.  
St. And. Prof. (U.).  
Rollo, J. C., B.A. Ox., M.A. Glas.  
Prof. (Principal, Maha-  
rajah's College) (U.).

Sell, F. R., M.A. Ox. Prof. (U.).

McAlpine, E. G., M.A. Edin.  
Prof. (U.).

Hensman, Mrs. H. S., M.A. Prof.  
7 Asst. Profs., 6 Lectrs., 9 other  
Teachers.

### *French*

Cochet, Father J., B.A. Lectr.  
Collart, Father R. M. Lectr.

### *Geology*

[Prof. (U.).  
Sampat Iengar, P., M.A.  
2 Asst. Profs., 2 Lectrs., 3 Demrs.

### *Hindustani, Persian, and Arabic*

Aga M. Abbas Shooshtry Prof.  
1 Lectr., 1 Munshi.

### *History, Economics, and Political Science*

..... Prof. (U.)  
Venkateswara Aiyar, S. V., M.A.,  
L.T. Prof. (U.).  
Sri K. D. Rukminiamma, B.A. Prof.  
D'Souza, V. L., B.A., B.Com. Lond. Prof.  
Krishna Aiyengar, M. H., M.A.,  
D.Lit. Lond. Prof.  
2 Asst. Profs., 9 Lectrs., 4 Tutors.  
*Kannada* [Hon. Prof.  
Srikantia, B. M., M.A., B.L.  
Venkannaia, T. S., M.A., LL.B. Prof.

Krishnasastry, A. R., M.A.

Asst. Prof.

3 Pandits, 1 Lectr.

*Mathematics and Statistics* [Prof. Iyengar, K. S. K., B.A. Camb.

Madhava, K. B., M.A. Prof.

3 Asst. Profs., 8 Lectrs., 11 other Teachers.

*Philosophy, Psychology, and Logic*

Wadia, A. R., B.A. Camb., Barr-at-Law Prof. (U).

Gopalaswamy, M. V., B.A., B.Sc., Ph.D. Lond. Prof.

4 Lectrs. and 6 other Teachers.

*Physics*

Metcalfe, E. P., D.Sc. Lond., F.Inst.P. (Principal, Central College) Prof. (U).

Venkatesachar, B., M.A.

Prof. (U).

Telang, Venkata Rae, A., M.A.

Prof.

4 Asst. Profs., 3 Lectrs., 8 other Teachers.

*Sanskrit*

Srinivasachar, D., M.A. Prof.

1 Asst. Prof., 2 Lectrs., 1 Tutor,

4 Pandits.

*Tamil and Telugu*

4 Pandits.

*Zoology*

[Prof.

Narayana Rao, C. R., M.A., L.T.

1 Asst. Prof., 2 Lectrs., 5 Demrs.

## Medicine

Puttanna, D. S., B.A., F.R.C.S.E. Prof. of Surgery.

Subba Rao, A., B.A., D.Sc. Lond., F.R.M.S. Prof. of Physiology.

Seshachalam, T., L.M.S., L.R.C.P., M.R.C.S. Prof. of Anatomy.

Krishnaswami Rao, C., B.A., M.B., C.M., M.R.C.P. Lond.

Prof. of Medicine.

Mascarenhas, J. V., M.B., C.M., D.P.H., D.T.M. Prof. Hyg.

Srinivasa Rao, M., M.A., M.D.

Hon. Prof. of Bio-Chemistry.

Sambasivan, B. G., M.B., B.S., M.R.C.S. Eng., L.R.C.P.

Lond. Prof. of Pathology.

Albuquerque, Miss, M.C., L.R.C.P.

Lond., M.R.C.S. Eng., L.M.

Rotunda Prof. of Midwifery.

Narayana Rao, B. K., B.A., M.B., C.M., L.R.C.P., M.R.C.S., D.P.H., D.O.

Prof. of Ophthalm. and

offg. princ.

Noronha, F., M.B., C.M., D.P.H.

Prof. of Mental Diseases.

Lecturers (one in each subject)

in Mat. Med., Vaccination,

Dental Surgery, Infectious

Diseases, and Physiology; 2

in Anatomy.

2 Demrs. in Anat. and Physiol.

1 Demr. in Pathol.

1 Demr. in Surgery.

1 Demr. in Medicine.

## GENERAL INFORMATION

This Univ. was founded in 1916 with two constituent Colleges, the Central Coll., Bangalore, and Maharaja's Coll., Mysore, which had for 25 yrs. been affiliated to the Univ. of Madras. To these have since been added the Women's and Professional Colleges. There are also six Intermediate Colleges, four for men at Mysore, Bangalore, Purnkar, and Shimoga, and two for women, one at Bangalore and the other at Mysore. The capital cost of all the Univ.'s buildings amounts to Rs. 12,04,955.

LIBRARIES. Univ., 18,024 vols.; Colleges, 33,386; Sansk. and Oriental, 13,261 vols. and 10,294 MSS.

FACULTIES. Arts, Science, Medicine, Engineering and Technology.

TERMS: Jan.-April, July-Dec.

ADMISSION to B.A. or B.Sc. courses is normally by Intermediate-examn. in English, a second language, and three other subjects. Candidates prepare for this by two years' study in Intermed. Colleges after the ordinary High School course. Admission to the B.E. course is by the Inter. Examn. in Science (leading to Eng.). Admission to the M.B., B.S. course is by the Inter. Examn. in Sci. (leading to Medicine). The B.Com. course suspended for the present.

DEGREE COURSES. 2 yrs.—B.A. or B.Sc. (Pass); 3 yrs.—B.A. or B.Sc. (Hons.); 4 yrs.—B.E. (successful candidates are eligible to take the degree after a year's practical course in a recognized firm); 5 yrs.—M.B., B.S.; graduate course for M.A.—2 yrs., for B.T. 1 yr after the B.A. or B.Sc. Courses for M.A. and M.Sc. in Mathematics, 2 yrs. after B.A. or B.Sc. The D.Litt., D.Sc., and LL.D. are Honorary.

RECOGNITION OF DEGREES and examns. of other Univs.: (1) The B.A. Degree of other Indian Univs. is deemed equivalent to the B.A. of this Univ. and admits to its M.A. courses, provided the degree examns. have been passed in cognate subjects. (2) The B.A. or B.Sc. of other Indian Univs. is accepted for admission to the B.T. course. (3) The Inter. Examn. of any Indian Univ. = the 1st Year Certif. Examn. of this Univ. and admits to the 2nd year B.A. or B.Sc. class under certain conditions. (4) The B.A., B.Sc., M.A., M.Sc., and B.L. of the Dacca Univ. = the corresponding degrees of this Univ. and admit to corresponding privileges. (5) The degrees of the Lucknow Univ. = the corresponding degrees of this Univ. (6) The B.A. and B.Sc. of the Aligarh Muslim Univ. = the B.A. (Arts and Science) of this Univ. for admission to higher courses in the subjects taken for the degree. (7) B.A. Delhi = B.A. Mys. (8) The B.A. Degree of the Andhra University is recognized for admission to the M.A. and B.T. classes of this University. (9) B.A. and B.Sc. Degrees of the Agra University = the corresponding degrees of this University.

RECOGNITION BY OTHER UNIVERSITIES. Calcutta: (1) B.A. and B.Sc. Mysore are admitted to Calcutta M.A. and M.Sc. courses equally with B.A. and B.Sc. Calc.; (2) holders of Mysore first year Certif. (with Physics, Chem., and Maths., or Zool., Geol., and Bot.) are admitted to Prelim. Scientific M.B. of Calcutta equally with students who have passed Inter.Sc. Calc.

Bombay: (1) Mysore B.A. are admitted to Bombay LL.B. course equally with B.A. Bom.; (2) Mysore first year Certif. = corresponding examn. of an Arts College affiliated to Bombay; (3) for admission to Bombay B.Com. degree examn. graduates in Arts or in Commerce of Mysore are on same footing as graduates in Arts or in Commerce of Statutory Indian Univs.; (4) the B.Sc. examn. of the Mysore Univ. is recognized as equivalent to the B.Sc. examination of the Bombay Univ. for the purpose of admission to the M.Sc. examn. of that University. The L.M.P. Diploma of this Univ. is added to paragraph 2 of the Schedule to the Bombay Medical Degrees Act, 1912.

Madras: (1) recognition similar to Bombay (1); (2) Mysore B.A. (Science) and B.Sc. who have taken Physics, Chem., Biol., or Maths. for degree course are admitted to Madras medical courses.

Panjab: Mysore B.A. and B.Sc. are admitted to post-graduation study equally with B.A. and B.Sc. Panj.

Benares: (1) recognition similar to Calcutta (1); (2) First Year Cert. Examn. = Inter., Benares; (3) Mysore Entrance = Benares Admission; (4) Mysore First Year with Maths., Physics, and Chem. is accepted for admission to B.Sc. Engin., Benares.

Mysore degree examns. = those of Lucknow and Allahabad.

Dacca: Mysore degree = corresponding Dacca degree for admission to

courses of study for degrees. This does not apply necessarily to degrees with honours.

Aligarh : all Mysore examns. are recognized. See also Appendix XXI. for recogn. by the Home Univs.

The Univ. has been approved by the Council of Legal Education for purposes of admission to the Inns of Court of London.

The B.A. and B.Sc. Degree Examinations of the Mysore Univ. are recognized for purposes of admission to French Universities with a view to the *Docteur de l'Université* in Arts, Science, and Law.

INSPECTION OF SCHOOLS recognized by the Univ. is made by Profs. deputed by the Council.

SCHOLARSHIPS for graduates, 6 of Rs. 20 p.m. and 6 of Rs. 15, including several for students belonging to "backward communities."

FEES for courses for B.A. (Pass), Rs. 96 + 12 (for Science subjects) a yr. ; B.A. (Hons.), Rs. 120 a yr. ; B.Sc. (Pass), Rs. 120 a yr. ; B.Sc. (Hons.), Rs. 144 a yr. ; M.A., Rs. 120 a yr., and M.Sc., Rs. 144 a yr. ; (B.E., Rs. 150 a yr. ; M.B., B.S., Rs. 200 a yr., and B.T., Rs. 80 a yr.).

RESIDENCE. Hostels at Colleges. Cost of living ranges from Rs. 252 to 312 p.a. at Mysore ; Rs. 276 at Bangalore.

AN APPOINTMENTS BUREAU and a STUDENTS' INFORMATION BUREAU are maintained.

PUBLICATION. *Calendar* (Oct.), including examn. papers.

## THE YEAR 1928-29

BENEFACTIONS. Messrs. T. Srinivasaraghavachar, Rs. 7000 ; P. Subba Rao, Rs. 500 ; The "Lodge," Mysore, Rs. 1000 ; Sri. Siddabasavamma, Rs. 3000.

RETIREMENT. Dr. R. Shama Sastry, B.A., Ph.D., Director of Archaeological Researches.

STUDENTS. Full-time : total, 2409.

DEGREES. M.A., 41 ; B.A., 200 ; B.T., 26 ; B.Sc., 60 ; B.E., 31 ; M.Sc., 2 ; M.B., B.S., 8.

# NAGPUR UNIVERSITY

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE CENTRAL PROVINCES.

VICE-CHANCELLOR—RAI BAHADUR SIR B. K. BOSE, K.C.I.E., M.A., B.L.

TREASURER—RAO BAHADUR V. M. KELKER, M.A.

REGISTRAR—V. MISRA, M.A., LL.B.

ASSISTANT REGISTRAR—S. P. BANERJI.

## UNIVERSITY COLLEGE

LAW COLLEGE, NAGPUR. Principal—V. Bose, B.A., LL.B. Camb., Barr.-at-Law. Lectrs.—A. V. Wazalwar, B.A., LL.M. Bom.; K. K. Gandhe, B.A., LL.B. All.; D. W. Kathale, B.A., LL.M., Advocate; G. R. Deo, B.A., B.L.; J. Sen, B.Sc., LL.B.; W. H. Dhabe, B.A., B.L.

## OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

MORRIS COLLEGE, NAGPUR (M).\*

HISLOP COLLEGE, NAGPUR (H).\*

ROBERTSON COLLEGE, JUBBULPORE (R).\*

COLLEGE OF SCIENCE, NAGPUR (Sc).\*

SPENCE TRAINING COLLEGE, JUBBULPORE (T).\*

KING EDWARD COLLEGE, AMRAOTI (K).\*

AGRICULTURAL COLLEGE, NAGPUR (A).\*

## TEACHING STAFF

<i>Agriculture</i>			
†Allan, R. G., M.A., Dip. Ag. Camb.	[(A).	Iqbal Hussain, Quazi Syed, M.A. Panj.	(M).
Phatak, B. R., B.Ag. (Poona)	(A).	Ghani, M. A., M.A., M.Litt. Camb.	(M).
Biswas, N. K., L.Ag.	(A).		
Subba Rao, B., L.Ag.	(A).	<i>Botany and Zoology</i>	
Kartar Singh, L.Ag.	(A).	Bhatia, G. S., M.Sc. Punj.	(A).
Mishra, S. K., L.Ag.	(A).	Gideon, C. A., B.Ag. Bom.	(A).
Dhanna Lal, L.Ag.	(A).	Bhattacharya, P. R., M.Sc. All.	(H).
Nair, P. D., M.A.	(A).	Mahta, D. N., B.A. Ox., F.L.S.	(A).
Singh, Jiwani, M.Sc.	(A).	Karve, J. N., M.Sc. Bom.	(H).
		Dastur, J. F., M.Sc., D.I.C.	(A).
		Shrivastava, K. P.	(A).
<i>Arabic and Persian</i>		Dave, B. B., L.Ag.	(A).
Aga-Hyder-Hasan, Syed, M.A.	(K).	Nair, P. D., B.A., L.Ag.	(A).
All. (also Eng.)	(R).	Varadpande, K. V., M.Sc.	(Sc).
Taqvi, S. G., M.A.			

(M), (H), etc. : symbols for reference to the Colleges.

† Dean.

Sontake, K. R., B.Sc.	(H).	Mitra, N. N., B.Sc., L.T. All.	(T).
Verma, N. S., B.Sc.	(H).	Kanetkar, G. G., M.A.	(T).
Moghe, M. A., M.A., M.Sc.	(Sc).	Danielson, A. J.	(T).
Bhalerao, G. D., M.Sc.	(Sc).		
Nisula, R. L., B.Sc., Ph.D. Lond., D.I.C.	(Sc).	<i>English</i>	
		Nascar, P. N., M.A. All.	(M).
		Verma, Sheo-Prasad, M.A., Ph.D.	(R).

*Chemistry*

Chakravarti, D. N., M.Sc. All.	(Sc).	Cheshire, F. M., B.A. Camb.	(M).
Tamhankar, G. R., M.Sc.	(R).	D'Souza, L. P., M.A. (English)	(K).
*Becket, R. H., C.I.E., B.Sc. Lond.	(Sc).	Ganguli, N., M.A. All. (English)	(M).
Godbole, S. N., M.Sc. All.	(Sc).	Chordia, S. S., M.A. All. (English)	(M).
Surey, L. S., M.Sc. All.	(K).	Guha, R. C., M.A. Dacca	(M).
Kale, V. D., B.Sc. All.	(H).	Madan Gopal, M.A. All. (English)	(M).
Gokhale, L. K., M.Sc.	(R).	Karkarey, S. B., M.A., LL.B.	(A).
Chandorker, D. V., M.Sc. All.	(Sc).	All. (English)	(A).
Mishra, R. N., M.Sc.	(A).	Ghosh, M., M.A. All. (English)	(R).
Iyer, A. R. P., B.A.	(A).	Mitra, M. N., M.A. Dacca	(Sc).
Bal, D. V., L.Ag.	(A).	Bobb, E. V., M.A. All.	(K).
Kayasth, R. N., M.Sc., B.Ag. Poona	(A).	Naskar, P. N., M.A.	(Sc).
Kulkarni, J. W., M.Sc. (Physics also)	(K).	Muley, D. S., M.A.	(Sc).
Paranjpe, D. R., M.Sc. (Physics also)	(Sc).	Maolankar, R. B., M.A., LL.B.	(K).
Kappanna, A. N., M.Sc.	(Sc).		
Shrikhande, J. G., M.Sc.	(Sc).	<i>Entomology</i>	
Patwardhan, H. W., M.Sc.	(Sc).	Khare, J. L., F.E.S. Pusa.	(A).

*Economics*

†McFadyen, Rev. J. F., M.A. Glas., D.D. (English also)	(H).	<i>History</i>	
Nanavati, M. H., M.A., LL.B. Bom.	(K).	Hunter, G. R., M.A. Ox.	(M).
Naidu, V. S., M.A. Mad.	(R).	Watchmaker, B. K., M.A.	(R).
Raghaviah, W. B., M.A. Mad.	(H).	Tostevin, F. P., M.A. Ox. (English also)	(K).
Sen Gupta, A. C., M.A. Edin.	(M).	Fernandes, T., M.A. All.	(K).
Dadachanji, B. E., M.A. Bom.	(M).	Gardiner, T. W., M.A. Camb. (English also)	(H).
Seth, H. C., Ph.D. Lond.	(M).	Hoyland, J. S., M.A. Camb.	(H).
Sudame, B. M., M.A.	(H).	Gadre, B. N., M.A. All.	(H).
		Hirde Narayan, M.A. Panj.	(M).
		Powar, B. L., M.A. All.	(R).
		Sinha, H. N., M.A. All.	(M).
		Paul, J. N. W., M.A. All.	(R).

*Education*

†Macnee, E. A., M.A., Principal (on leave)	(T).	<i>Modern Indian Languages</i>	
Ghosal, S. C., B.A., B.Sc., LL.B. All.	(T).	Pendse, S. D., M.A., M.O.L. Panj.	(H).
Hari Ram, B.A.	(T).	(Marathi)	

\* Dean, Fac. of Sci.    † Dean, Fac. of Arts.    ‡ Dean, Fac. of Ed.

Banhatti, S. N., M.A., LL.B. Bom.	Jha, V. S., B.A., Ph.D. Lond. (M).
(M).	Dharamaraj, M. G., M.A. (H).
Pathak, R. D., M.A. Ben. (R).	<i>Physics</i> , v. also Chem.
<i>Law</i> , v. <i>supra</i> —Univ. College	De, M. L., M.A. Calc. (R).
<i>Mathematics</i> , v. also English	Matange, D. G., M.Sc. All. (R).
Belekar, S. B., M.A. Bom. (M).	Owen, M., M.Sc. (Sc).
Mone, T. V., M.A. (R).	Mukerji, Umadas, M.Sc. (K).
Garde, G. K., M.A. (H).	Agnihotri, G. P., B.Sc. All. (Maths.
Dhar, S. C., D.Sc. Calc. (Sc).	also) (H).
Patel, K. P., M.A. Bom. and Lond.	Deoras, R. S., M.Sc. All. (Sc).
(English also) (R).	Thatte, V. N., M.Sc. All. (Sc).
Panday, K. D., M.A. All. (K).	Makoday, G. S., M.Sc. (R).
Iyer, K. S. S., B.E. Mysore (Sur-	Dabadghao, V. M., M.Sc. (Sc).
vey also) (A).	Kulkarni, K. K., B.Sc. All. (Chem.
Raghavachariar, V., M.A. Mad. (Sc).	also) (H).
Shastri, N. A., M.Sc. (Sc).	Chinchalkar, S.W., M.Sc. Nag. (Sc).
<i>Modern European and Classical</i>	Ganesan, A. S., M.A., Ph.D. Lond.,
<i>Languages</i>	D.I.C. (Sc).
Members of the staff who also	Kerawalla, J. D., M.Sc. (Sc).
teach other subjects.	Shahane, S. M., M.Sc. (Sc).
<i>Philosophy</i> , v. also Engl.	<i>Sanskrit</i> , v. also English
Rowlands, W. S., B.A. Ox.	Telang, H. K. S., M.A. (K).
(English also) (R).	Somalwar, S. G., M.A. All. (H).
Moses, D. G., B.A. Mad. (H).	Rampratap Shastri (M).
Ramanthan, P. S., M.A. Mad. (K).	Mirashi, V. V., M.A. Bom. (M).
Raju, J. B., M.A., B.Sc. Ox. (M).	Jain, H. B., M.A., LL.B. All. (also
Mukerji, J. N., M.A. Calc. (M).	English) (K).
Robertson, A., M.A. Aberd. (H).	Navlekar, N. R., M.A. All. (R).
Jwala Prasad, M.A. All. (R).	<i>Veterinary Science</i>
	Shukla, P. A. (A).

## GENERAL INFORMATION

The University was established in 1923. The colleges (except the Agricultural College) were formerly affiliated to the Univ. of Allahabad. The authorities of the Univ. are the Court, Executive Council, Academic Council, Faculties, and Boards of Studies. The Univ. does not hold a Matriculation Examn., but admits students who have passed (a) the Final Examn. of the Central Provinces Board of High School Education, or an examn. recognized (with the consent of the Govr.-Genl.) as equivalent thereto, (b) the Matricn. Examn. of an Indian Univ.

FACULTIES. Arts, Science, Law, Education, and Agriculture.

DEGREES. B.A., B.Sc., B.Ag., B.T., M.A., M.Sc., Ph.D., D.Sc., LL.B., LL.M., LL.D.

PUBLICATIONS. *Calendar*; *Annual Report*; *Annual Minutes*; *Exam. Papers*.

## THE YEAR 1928-29

BENEFACCTIONS. (1) Saraswati Bai Kolte of Bhandara gave Rs. 1000 to found "The Saraswati Bai Kolte Gold Medal," awarded to the candidate obtaining the highest number of marks in Sanskrit at the B.A. Examn. (2) Sir

Bipin Krishna Bose, Vice-Chancellor of the Univ., and Sir Bezoni Mehta gave Rs. 5000 each to found a Post-Graduate Research Scholarship in Sci., value Rs. 100 p.m. The University added Rs. 17,000. (3) A donation of Rs. 845 by the Local Committee of the Sixth Conference of the Indian Mathematical Society to found the Ramanujan Gold Medal for the best candidate in Maths. at the B.A. or B.Sc. Examn. (4) Mr. N. K. Behere, M.A., B.Sc., L.T., gave Rs. 1000 to found the Behere Gold Medal for the best student in Marathi at the M.A. Examn. (5) Mr. B. Byramji has presented a Silver Trophy worth about Rs. 1000 to be annually competed for by all the colleges of the University in debate. Trophies for Boxing and Wrestling have also been promised by Mr. Byramji.

**NEW BUILDINGS.** The new building of the Science College (affiliated to the Univ.) has been completed and was opened last July.

**NEW DEPARTMENT.** A new Department of Studies in Politics has been created this year.

**OTHER DEVELOPMENTS.** (1) In accordance with the recommendations of the Internat. Committee on Intellectual Co-operation of the League of Nations the University has decided to arrange Extension Lectures on subjects connected with the League of Nations; and has created an endowment to award a Gold Medal for the best essay in English every year on the League of Nations and its activities. (2) The University has recognized the following colleges as qualified to teach vernaculars to the standards stated: (i.) Hislop College, Nagpur—Marathi to B.A. standard; (ii.) Morris College, Nagpur—Marathi to M.A. standard; (iii.) Robertson College, Jubbulpore—Hindi to M.A. standard.

**CHANGES IN REGULATIONS.** (a) Politics has been introduced as an optional subject in the B.A. examn. and "Civics and Public Administration of India" as an optional subject for the Inter. Examn; (b) It is now possible for a candidate for the Inter. Examn. to offer a Modern Indian Language as an optional subject. Candidates for the B.A. examn. can now offer a Modern Indian Lang. and a classical lang. together as subjects for the examn.; (c) Non-collegiate students, viz., teachers and women, can now offer any subject for the examn. whether offered for the B.A. Examination or not; (d) It has been decided to classify successful candidates in the M.A., M.Sc., and LL.B. examns. into divisions on the results of both parts (Previous and Final) taken together.

**APPOINTMENTS.** Election to the offices of Vice-Chancellor and Treasurer took place in November.

**DEATHS.** Mr. A. S. Sathe, Rao Bahadur Mahamahopadhyaya S. J. Dehadrai, Rai Saheb R. P. Dwivedi.

**HONORARY DEGREE.** The honorary degree of LL.D. has been conferred on the Vice-Chancellor, Sir Bipin Krishna Bose.

**THE STUDENTS INFORMATION BUREAU.** Mr. F. M. Cheshire, M.A., I.E.S., Chairman, and Mr. S. P. Banerji, Assistant Registrar, Secretary. The Bureau advises and helps students who go abroad for advanced studies. For the October Session of 1929 the Bureau obtained admission for 16 students to English Universities.

**UNIVERSITY LIBRARY.** The library contains about 10,000 vols. costing about Rs. 50,000. This year Rs. 15,000 have been provided for the purchase of books. Reading hours are 11 A.M. to 4 P.M. on all week days except Thursdays when it is open from 11 A.M. to 1 P.M.

**STUDENTS.** Total, 1808, including 422 Post-graduate students.

**DEGREES.** B.A., 156; B.Sc., 33; M.A., 24; M.Sc., 9; B.T., 25; LL.B., 73; B.Ag., 5.

# OSMANIA UNIVERSITY, HYDERABAD, DECCAN

PATRON—HIS EXALTED HIGHNESS THE NIZAM, G.C.S.I., G.B.E.

CHANCELLOR—MAHARAJA SIR KISHAN PERSHAD BAHADUR, Yamin-us-Saltanat, G.C.I.E.

VICE-CHANCELLOR—NAWAB WALI-UD-DAULA BAHADUR.

REGISTRAR—H. A. ANSARI, B.A. All.

OSMANIA UNIVERSITY COLLEGE—(Arts, Science, Theology, and Law)—  
PRINCIPAL—M. A. R. KHAN, M.Sc. Lond., A.R.C.Sc.

## PROFESSORS, ETC.

### *Botany*

Saiduddin, B.Sc. Bom.

Asst. Prof. (on study leave).

S. Rahimullah, B.Sc. Alig.

Acting Asst. Prof.

### *Chemistry*

Muzaffaruddin Qureshi, M.Sc.

Panj., Ph.D. Berlin Prof.

Husain, Syed, M.Sc. Alig., Ph.D.

Lond. Prof.

Khan, Mahmood Ahmed, B.Sc. All.

Asst. Prof.

2 Demrs.

### *Economics*

..... Prof.

Burney, Mohd. Elias, M.A., LL.B.

All. Asst. Prof.

Rahman, H., M.A., LL.B. All.

Asst. Prof.

Syed Jafar Hasan, Ph.D. Heidel-

berg Asst. Prof.

### *English*

Khan, H. Ali, B.A. Ox. Prof.

Speight, E. E., B.A. Lond. Prof.

Syed Abdul Latif, B.A. Mad.,

Ph.D. Lond. Prof.

Virabhadralu, T., M.A. Mad. Prof.

Ramchandran, S. D., B.A., L.T.

Mad. Asst. Prof.

### *History*

[Prof.

Khan, Sherwani Haroon, M.A. Ox.

Khan, Mirza Ali Yar, B.A. Ox.

Prof.

..... Prof.

Hasan, Ibni, M.A. All. Asst. Prof.

Rahman, Mohd. Jamilur, M.A.

Panj. Asst. Prof.

Roy Saksena, K. C., M.A. All.

Asst. Prof.

Majid, Abdul, M.A. Asst. Prof.

### *Languages (Ancient and Modern)*

Haq, Abdul, B.A. All. (Urdu)

Prof.

Haq, Abdul, B.Litt., D.Phil. Ox.

(Arabic) Prof.

Nizamuddin, Mohd., Ph.D. Camb.

(Persian) Prof.

### Asst. Profs. :

Nabi, Syed Ghulam (Arabic).

Hai, Abdul (Arabic).

Syed Ibrahim (Arabic).

Khan, Abdul Hamid (Persian).

Husaini, Qari Sayid Kalimullah,

M.A., LL.B. (Persian) (on

leave).

Husain, Syed Sajjad, M.A. All.

(Urdu).

Joshi, C. N., M.A. (Marathi).

Rao, T. R. Rama, B.A. Mad. (Ka-

nanarese).

Rao, R. Subba (Telugu).

Shastri, Hari Har (Sanskrit).  
Dhareshwar, G., B.A. (Sanskrit).  
Khan, Mirza Ali Yar, B.A. Ox.  
(French).

Hasan, Syed Jafar, Ph.D. Heidel-  
berg (German).

*Mathematics*

Husain, Quazi Mohd., M.A. Panj.,  
B.A., LL.B. Camb. Prof.  
Chand, Kishan, M.A. Camb. Prof.  
Ali, Sh. Barkat, M.A. Asst. Prof.  
Khawaja Mohiuddin, M.A. Mad.  
Asst. Prof.

*Morals*

Ahmad, Zahiruddin, D.Litt. Egypt.

*Philosophy*

Hakim, Khalifa Abdul, M.A.,  
LL.B. Panj., Ph.D. Heidel-  
berg Prof.  
Bari, Abdul Asst. Prof.  
Valiuddin, Mir, M.A. Alig., Ph.D.  
Lond. Asst. Prof.  
Rahman, M. W., M.A. Panj.  
Asst. Prof.  
Lal, Shiv Mohan, M.A. Alig.  
Asst. Prof.

*Physics*

[Prof.]  
Khan, Abdur Rahman, B.Sc. Lond.  
Rahman, Wahidur, B.Sc. Calc.  
Prof.

Ahmed, Nasir, M.A., B.Sc. All.  
Asst. Prof.

2 Demrs.

*Sociology*

Hasan, Syed Jafar, Ph.D. Heidel-  
berg Asst. Prof.

*Theology*

Gilani, Manazir Ahsan Asst. Prof.

*Zoology*

Mirza, Babar, Ph.D. Frankfort  
Asst. Prof.

**Faculty of Muslim Theology**

Siddiqi, Abdul Qadir Prof.  
Asst. Profs. :  
Ali, Sher (Philosophy of Islam).  
Lateef, Mufti Abdul (Quran).  
Qadiri, Shah Mustafa (Islamic  
Law).  
Wasay, Abdul (Traditions).  
Husain, Syed Ahmed (Logic).  
..... (Koranic Exegesis).  
Maqtadir, Abdul (Moslem Law).

**Faculty of Law**

Mirza, Hosain Ali, Barr.-at-Law  
Prof.  
Musavi, Akbar Ali, B.A., LL.B.  
Bom. Asst. Prof.

**OSMANIA MEDICAL COLLEGE**

PRINCIPAL—Major Farhat Ali, B.A., M.B., Ch.B. Edin.

*Physiology*

Hardikar, S. V., M.D. Edin. Prof.  
Abhynakar, R. N., M.B., B.S.  
Asst. Prof.

*Anatomy*

Lal, Brij Mohan, M.B., B.S.  
(On leave) Prof.

Sahagal, S. P., M.B., B.S.  
Asst. Prof.  
1 Demr.

*Pathology* [Prof. (Acting).]

Nawaz, Shah, M.B., B.S.

*Hygiene* [Lectr.]

Chenoy, H. J., L.R.C.P., D.P.H.

**ENGINEERING COLLEGE**

PRESIDENT—NAWAB ALI NAWAZ JUNG BAHADUR, F.C.H.

SECRETARY—SYED ALI RAZA, B. A., B.Sc. Hons. Manc.

*Civil Engineering*

Shah, Samiullah, B.Sc. Manc. Prof.  
Masoodullah, Mohammad, B.Sc.  
Manc. Lectr.

*Surveying*

Ghosh, Prafulla Kumar, B.A.  
Camb., B.Sc. Cal.  
Lectr.

<i>Mechanical Engineering</i>	<i>Applied Mechanics</i>
Hasan, Abdullah, B.Sc. All.	Ansari, Zainuddin, M.A., B.Sc.,
<i>Mech. Drawing</i>	Manc. Lectr.
Hafizullah, Mohammad, B.Sc. Alig.	Khan, M. Afzal Ali, B.Sc. Tech.
Lectr.	Manc. Demr.

## TEACHERS' TRAINING COLLEGE

PRINCIPAL—MUHAMMAD HAFIZULLAH, B.A., B.T.

LECTURERS—ALI, M. HARDAR, B.A. Punjab, B.T. Hons. Dacca.

ALI, MIR AHMAD, M.A. Delhi, M.Ed. Leeds.

LAL, BASANTI, B.Sc. Ald., B.T. Dacca.

## GENERAL INFORMATION

The University was established by a Firman (Order) of H.E.H. the Nizam in April 1917. Work began in Aug. 1919, with the opening of the College. A Bureau of Translation was established in 1917 to provide text-books in Urdu, in which language many of the courses are given. The executive government of the Univ. is in the hands of a Council consisting of 11 members. The organization of instruction rests with the Faculties and the Senate, which consists of from 40 to 60 members, including the Council, Univ. Profs., and representatives of graduates and Faculties. The Univ. is entirely financed by the State at an annual cost of £114,288.

**LIBRARY.** 24,773 vols., 842 MSS. The Staff have also access to the large Asafia Library.

**BUREAU OF TRANSLATION.** Curator, Md. Enayatullah, B.A.; 18 Translators, Assts. and Advisers. Books published, 131; in preparation, 174.

**FACULTIES.** Arts, Law, Islamic Theology, Medicine, Engineering, and Education.

**TERMS.** July to Dec. and Jan. to April.

The Univ. holds a **MATRICULATION** examn., but the Matricn. examns. of other Univs., the Senior Oxford and Cambridge Local examns. and the State H.S.L.C. examn. are accepted as equivalent. The B.A. courses last 4 yrs., with an Interm. examn. at the end of 2 yrs. The Interm. examn. of other Indian Univs. is accepted as equivalent to this. M.A. and LL.B. courses cover each 2 yrs. after graduation. The B.A. in Theol. requires a 4 yrs.' course in Eng., Philos., and Muslim Theol. The M.B., B.S. courses require 5 yrs. The B.E. course is 4 yrs., 3 yrs. Theoretical at the Coll. and 1 yr. Practical. The B.T. (Bachelor of Training) course is 1 yr.

**FEES.** Interm.—Rs. 60 p.a.; B.A.—Rs. 80 p.a.; M.A.—Rs. 100 p.a.; LL.B.—Rs. 80 p.a. M.B., B.S.—Rs. 100 p.a. B.E.—Rs. 100 p.a.

**RESIDENCE.** Hostels attached to various Colleges. Cost of living about Rs. 180 p.a.

**PUBLICATIONS.** *Calendar*; *Annual Administration Reports*.

## THE YEAR 1928-29

NEW DEPARTMENTS AND POSTS. The Engineering and Teachers' Training Colls. of the Univ. were established. The Philos. and the Sci. Depts. of the Arts Coll. were strengthened by addition of two Assist. Profs. in the former and one Prof. (Chem.) and two Demrs. in the latter.

OTHER DEVELOPMENTS. M.Sc. (Phys. and Chem.) Classes opened. The Zenana (Women's) Coll. began teaching up to B.A., for which two additional Lectrs. were appointed. A special Medical Officer appointed for the periodical medical examn. of the students, and a Territorial Corps formed in the Arts Coll.

EXTENSION LECTURES. By Dr. Sir Muhammad Iqbal, M.A., Ph.D., and Dr. Kalidas Nag, D.Litt.

HONORARY DEGREE. LL.D.—Nawab Masood Jung Bahadur, B.A. Ox., late Dir. of Pub. Instr.

STUDENTS. Full-time, 779, including 81 graduates.

DEGREES. B.A. (Arts), 51; B.A. (Sci.), 8; B.A. (Theology), 1; M.A. (Arts), 5; LL.B., 23.

# THE UNIVERSITY OF THE PANJAB, LAHORE

PATRON—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE PANJAB.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—A. C. WOOLNER,  
C.I.E., M.A.

REGISTRAR—P. N. DUTT, B.A.

JOINT REGISTRAR—ISHWAR DAS, M.A., LL.B.

## TEACHING STAFF

[(U.)=maintained entirely by the Univ.]

<i>Arabic</i>		Bhalla, D. N., M.A.
Md. Shafi, M.A. Camb. Prof. (U.).		Brij, Narain, M.A.
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Jena, I.E.S. Prof.

Scott, Miss M. E., M.A. Edin.,  
.B.Ed. Edin., M.B.E., I.E.S.

Lectr.

Meggitt, F. J., M.Sc., Ph.D. Birm.,  
I.E.S. Prof. (on leave).

Gates, G. E., M.A. Prof. (Offg.).  
1 Demr.

### *Engineering, Civil*

Elgood, W. N., B.Sc. St. And.,  
I.E.S. Prof. (on leave).

Gould, A. J., B.Sc., I.E.S. (Offg.).  
Set, B., B.E. Calc. Asst. Lectr.

### *English*

Fraser, W. G., M.A. Aberd., I.E.S.  
Luce, G. H., B.A. Camb., I.E.S.

Prof.

### *Chemistry*

Peacock, D. H., M.A. Camb., M.Sc.  
Lond., F.I.C., F.C.S., I.E.S.

Prof.

Goldsworthy, L. J., M.A. Ox.,  
I.E.S. Lectr. (on leave).

Venkateswaran, R., M.A. Mad.,  
Ph.D. Lond. Asst. Lectr.

Ba, U, B.A. Calc., A.T.M., F.C.S.  
Asst. Lectr.

Tha, U. Po, M.Sc. Asst. Lectr.  
11 Demrs. and Asst. Demrs.

Pearn, B. R., M.A. Lond. Lectr.

Kingsley, Miss M., M.A. Calc.,  
B.T. Calc., B.A. Lond.

Lectr. (on leave).

Mackenzie, A. C., M.A.  
Htin-si, L., M.A. Calc. Asst. Lectr.

Jembunathan, S., M.A.  
Asst. Lectr.

### *Economics*

Jevons, H. Stanley, M.A. Camb.,  
B.Sc. Lond., F.S.S., I.E.S.

Prof.

Solomon, E. H., B.A. Camb.,  
F.R.E.S. Asst. Lectr.

Khanna, B. M., LL.B. All.  
Asst. Lectr.

Dube, R. C., M.A. All. Tutor.

Gopalakrishna Aiyar, P. G., M.A.  
Mad. Asst. Lectr.

10 Tutors.  
*Forestry* [Prof. (on leave).

Unwin, R., B.Sc. Lond., I.F.S.  
Cochrane, R. A., M.A., B.Sc.,  
I.F.S. Prof. (Offg.).

Simmons, E. C., I.F.S. Lectr.

*Geology and Geography*

..... Prof.  
 Chatterjje, S. P., M.Sc. Lectr.  
 French, F. G. Spl. Lectr.  
 1 Demr.

*History*

Hall, D. G. E., M.A. Lond.,  
 F.R.H.S., I.E.S. Prof. (on leave).  
 Brookes, A., M.A. Camb., I.E.S.  
 Prof. (Offg.).  
 Luce, G. H., M.A. Camb., I.E.S.  
 Univ. Reader in Far  
 Eastern Hist.  
 Oldham, C. R., M.A. Lectr.  
 Desai, W. S., M.A. Bom., B.A.  
 Camb. Asst. Lectr.  
 4 Tutors.

*Law*

Eggar, A., M.A. Camb., Barr-at-  
 Law Prof. (on leave).  
 Bilimoria, J. C., B.A. Bom.,  
 Barr-at-Law Prof. (Offg.).  
 E-Maung, U, M.A., LL.B. Camb.,  
 Barr-at-Law Asst. Lectr.  
 Ba Hau, U. Asst. Lectr.

*Mathematics* [Prof. (on leave).]

Owen, L. G., M.A. Ox., I.E.S.  
 Lewis, E. G., B.Sc. Prof. (Offg.).  
 Pillai, P. K., M.A. Lectr.  
 Halidar, K. P., M.A., M.Sc. Calc.  
 Asst. Lectr.  
 Ka, U, M.A. Asst. Lectr.  
 Thon, U Po, M.Sc. Asst. Lectr.  
 7 Tutors.

*Oriental Studies*

Tin, U Pe Maung, M.A. Calc.,  
 B.Litt. Ox., I.E.S. Prof.  
 Cassim, A., B.A. Calc.  
 Asst. Lectr. in Pali.  
 Win, U Lu Pe, B.A.  
 Asst. Lectr. in Burmese.  
 Akbar, Md. Gulam, M.A. Calc.  
 Asst. Lectr. in Persian.  
 5 Tutors.

*Philosophy*

Ross, G. R. T., M.A. Edin., D.Phil.  
 Edin., I.E.S. Prof. (on leave).

Jury, G. S., M.A. Prof. (Offg.).  
 Banerjee, D., M.A. Lectr.

*Linguistic Survey*

Taylor, L. F., B.A. Camb., I.E.S.  
 Research Lectr.

*Physics*

Aiyar, N. C. Krishna, M.A. Mad.,  
 I.E.S. Prof.  
 Teegan, J. A. C., M.Sc. Lectr.  
 Basu, R. M., B.Sc. Lond.  
 Asst. Lectr.  
 Iyer, K. R. R., M.A. Asst. Lectr.  
 7 Demrs. and Asst. Demrs.

*Physiology*

McRobert, Capt. G. R., M.D.,  
 M.R.C.P., D.T.M. & H., I.M.S.  
 Prof.  
 Chowdhury, H., M.Sc., M.B.  
 Asst. to Prof.

1 Demr.

Medicine (for subjects of first  
 2 yrs.—Anat., etc., v. *supra*)

*Anæsthetics*

Singh, Randhir, M.B.E. Lectr.

*Dentistry*

Drinkall, L. D. S. Lectr.

*Forensic Medicine*

Owens, Lt.-Col. T. F., I.M.S.  
 Prof. and Dean of Medi-  
 cal Studies.

Passanha, Major W. H., I.M.D.  
 Asst. to Dean.  
 U, Tin, L. M. P. Asst. to Prof.

*Hygiene and Public Health*

Anklesaria, J. A., M.B., B.S.,  
 D.P.H., D.T.M. Lectr.

*Medicine*

Morrison, Major R. V. Prof.  
 Chowdhury, G. L., M.B. Calc.  
 Asst.

*Mental Diseases*

Leary, Capt. I. M. S. Lectr.

*Midwifery and Gynæcology*

Crump, Lt.-Col. S. T., I.M.S.  
 Prof. (on leave).

Treston, Major M. L., I.M.S. Offg. Prof.	Kundu, K. P., M.B. 2 Demrs.	Asst.
Ferguson, Mrs. K. W., F.R.C.S.I., L.M. Asst.	<i>Radiology</i>	
<i>Ophthalmology</i>	James, E. R., I.M.D.	Lectr.
Cormack, Major H. S., F.R.C.S.E., I.M.S. Lectr.	<i>Surgery</i>	
Menon, E. K., L.M. and S. Asst.	Scott, Lt.Col. H. B., O.B.E., F.R.C.S.E., I.M.S.	Prof.
<i>Materia Medica and Pharmacology</i>	David, M. D., M.B., Ch.B. Mad., F.R.C.S.E.	Asst.
Jones, Major J. W., I.M.S. Lectr.	<i>Contagious Diseases</i>	
Basu, N. K., M.B. Calc. Asst.	Srivastava, B. P., M.B., B.S., D.P.H.	Lectr.
<i>Pathology and Bacteriology</i>		
Taylor, Lt.-Col. J., D.S.O., M.D., I.M.S. Prof.		

JUDSON COLLEGE : Principal—W. St. John, B.D., Ph.D. Chicago.

<i>Biology</i>	<i>Economics</i>	
Gates, G. E., M.A. Harv. Lectr.	Andrus, J. R., A.B. Redlands, M.A. Calif.	Lectr.
Keyser, W. L., B.A. Bucknell, M.A. Penn. Lectr.	<i>English Literature</i>	
1 Demr.	Crawford, R. N., M.A. Chic., B.D. Rochester Lectr. (on leave).	
<i>Burmese and Pali Literature</i>	Rickard, S. H., B.A. Bucknell.	
Pe, U. Tun, M.A. Calc., B.L., M.R.A.S., M.L.C. Lectr. (Pali).	Hunt, Miss H. K., M.A., Ph.D. Denison, B.Sc. Simmons, <i>Dean</i> <i>of Women</i>	Lectr.
Chaudhury, R., M.A. Calc. Lectr. (Pali).	Kangyi, J., M.A. Chic.	Lectr.
Maung, U Tun, B.A. Asst. Lectr. (Pali).	Wiatt, G. E., Ph.B. Denison	Lectr.
Pe, U. Tun, M.A. Calc., B.L., M.R.A.S., M.L.C. (Bur.) Lectr.	3 Instrs.	
Hta, U San (Bur.) Asst. Lectr.	<i>History</i>	
Gwan Leong, T., B.A. (Bur.) Asst. Lectr.	Aspinall, A., M.A., Ph.D. Manc.	
<i>Chemistry and Physics</i> [Lectr.	Thomas, E., B.A. Asst. Lectr.	
Shivers, Marion E., M.A. Columbia. (on leave).	<i>Mathematics</i>	
Scherling, C., M.A. Camb. Lectr.	Campbell, W. B., M.A. Lectr.	
Smith, D. O., B.A. Redl., B.Sc. Calif. Tech. Lectr.	Smith, D. O., B.A. Redland, B.Sc. Calc. Tech. Lectr.	
Basak, B. K., M.Sc. Calc. Lectr.	Ghatak, M., M.A. Calc. Lectr.	
Guha, S. C., M.A. Calc. Lectr.	Johnson, A. N., M.Sc. Asst. Lectr.	
Majumdar, N. C., M.Sc. Calc. Asst. Lectr.	<i>Mental and Moral Science and</i> <i>Logic</i> [Lectr. (on leave).	
2 Demrs.	St. John, W., B.D., Ph.D. Chic.	
	Jury, G. S., M.A. Yale Lectr.	
	San Ba, T., B.A. Calc., B.D.	
	Newton Centre Asst. Lectr.	
	Hla Bu, U., M.A. Calc.	

## GENERAL INFORMATION

This Univ., founded in Dec. 1920, is governed by a widely representative Council (not more than 70 members), with an Executive Committee of 10 members. The Senate consists of the Vice-Chancellor, the Director of Public Instruction, Burma, the Principals of Constituent Colleges, the Professors, 3 members of the Council, and not less than 10 lecturers in constituent colleges. Its executive duties are discharged by a Standing Committee. The Act of 1920 was amended in 1924.

An estate of about 450 acres of high and healthy ground, adjoining the Victoria Lakes on the outskirts of Rangoon, has been acquired for the Univ. buildings. The erection of the buildings for the Univ. and its Constituent Colls. makes good progress. The complete scheme will cost about 120 lakhs.

**SPECIAL FEATURES.** The B.Sc. Courses in Forestry; courses in Burmese, in old Mon (Talaing); in Burmese Epigraphy leading to the M.A. (Hons.); course in Far Eastern History with emphasis on Chinese and further Indian studies; special courses in Burmese History. The University has access to a comprehensive collection of MSS. of Pali Pitakas with commentaries, and Talaing MSS. in the Bernard Free Library and is engaged in the collection of similar materials.

**LIBRARIES.**—University, in process of formation; University College, 30,685 vols.; Judson College, 12,000 vols.

**DEGREES.**—B.A. and M.A.; B.Sc. and M.Sc.; B.Sc.Civ.Engin.; B.Sc. Forestry; B.L.; M.B. and B.S. (6 yrs.' course from Intermediate examn.); D.Litt., D.Sc., LL.D. LICENCE in Med. and Surg. (6 yrs.' course after matriculation).

**DIPLOMAS**, in Teaching, in Forestry, and in Engineering.

**ADMISSION.** Ordinarily by Matriculation or a pass in the Anglo-Vernacular High School examn. or the European High School examn. held by Educational Dept. in English, Burmese, Maths., and two optional subjects. Proficiency in English must be shown.

**FEES** for Examinations: B.A., B.Sc., Rs. 30; B.A. (Hons.), B.Sc. (Hons.), Rs. 40; M.A., M.Sc., Rs. 40; B.L., Rs. 40; M.B. and B.S., Rs. 50. Diploma or Licence, Rs. 40; B.Sc. Forestry, Rs. 40; B.Sc. Engineering, Rs. 50.

**SCHOLARSHIPS** for advanced study in the United Kingdom; 1 in Education; 1 in Nat. Sci., and 1 in Co-operation and Economics.

**PUBLICATIONS.** *Calendar; Annual Reports; Convocation Addresses.*

## THE YEAR 1928-29

**THE ENDOWMENT FUND.** The capital of the Fund now amounts to nearly 47 lakhs of rupees including the amounts given for specific purposes, but excluding the gift of one hundred thousand pounds sterling from the Burmah Oil Company, Limited.

**OTHER BENEFACTIONS.** (1) From Raja Dr. S. Ramanatha Reddiar, LL.D., Rs. 3000 for a Gold Medal and Books, to be called the "Dr. S. Ramanatha Reddiar Prize" for the student with the most distinguished Univ. record in Medicine. (2) From Dr. C. Chakko, M.B., Rs. 1000 for award of a Gold Medal, to be called the "Harriet Chakko Gold Medal," to the best candidate of his year in Clinical Medicine in the Final M.B., B.S. Examn.

**NEW BUILDINGS.** The bulk of the residential buildings for students and staff completed and occupied. Water, sewerage, and electrical systems, with roads and other ancillary services, completed and taken over by the University. Main teaching blocks under erection. University Library, Students' Union and Gymnasium plans approved. A Special Committee has been appointed to prepare plans for the economical and efficient administration of the Estate.

**CHANGES IN THE REGULATIONS.** After 1934 no person educated in Burma to be matriculated without leave of Senate, unless he has passed the Anglo-Vernacular High School Examination held by the Education Depart., Burma, and has satisfied the Admission Committee of the Senate in: (1) English; (2) Burmese, provided that, with the approval of the Standing Committee, a person may be matriculated who has not passed in Burmese but has passed in another language; (3) Mathematics (Arithmetic, Algebra, and Geometry); (4) Two optional subjects from the following: a Language (other than those in (1) and (2) above), Additional Maths., Geog., Hist., Physics, Chem. or General El. Sci. or Bot. and Zool.

**NEW COURSES.** Diploma in Civil, Elec. or Mech. Engineering; 2 yrs.' duration for candidates of University standing who have been engaged in the practice of one of these branches of Engineering.

**EXTRA-MURAL WORK.** October 1928. Vacation Course for Teachers. 6 series of lectures on subjects in connexion with Secondary School Teaching.

**RETIREMENT.** Lt.-Col. R. Kelsall, V.H.S., D.S.O., M.D., I.M.S., Professor of Medicine, University of Rangoon.

**NEW DEVELOPMENTS.** The University has consented to train all teachers for the Anglo-Vernacular Schools in Burma. It will provide for the training of teachers for the following professional qualifications: (1) *A Middle School Teachers' Cert.*, course of two yrs.' duration open to students possessing the High School Final qualification; (2) *A High School Teachers' Cert.*, course of two yrs.' duration open to students possessing the Intermediate qualification; and (3) *A Diploma in Teaching*, course of one yr. duration open to all graduates.

The first two courses will replace the courses at present held in Anglo-Vernacular Normal Schools. Graduate students on the successful completion of the course or courses will be granted University Diplomas in Teaching and non-graduate students School Teachers' Certificates. Negotiations in regard to the governing authority of the new Training College and the administrative adjustments between Government, the University, and the present Anglo-Vernacular Normal Schools are proceeding. A statement of the buildings required for the new Training College has been forwarded to the Rangoon University Building Trust, which will prepare plans at an early date. The estimated cost of the buildings is about Rs. 12,00,000. It is hoped that the College will begin work in the new buildings in June 1931.

**OTHER DEVELOPMENTS.** First group of candidates for M.B., B.S. Degree qualified; recognition of degree sought from General Medical Council. Committee at work on the future organization of Higher Medical Education; plans for accommodation, equipment, and staffing of the B.O.C. College of Engineering and Mining as self-contained teaching institution well advanced; recognition of the Degree of B.Sc. (Engin.) sought from the Indian Institute of Engineers; B.Sc. (Engin.) graduate chosen by Govt. of India as State Scholar in aeronautics; University Training Corps, third place in the Rifle Match of the Universities of the British Empire; Sappers and Miners section of the University Training Corps recognized by Army authorities; University Boat Club firmly established; two light fours and two shell eights added to the fleet;

Rs. 1,30,000 allotted by Endowment Fund Trustees for equipment and book-stock of University Library ; staff of Univ. Sanatorium undertook medical examination of all men students of Judson College ; proposes to extend the examination and medical treatment when necessary to all University men students.

STUDENTS. Full-time : total, 1636 ; graduates, 113. Part-time : 53. Vacation course for teachers, 342.

DEGREES. M.A., 1 ; M.Sc., 4 ; B.A. (Hons.), 18 ; B.A. (Pass), 42 ; B.Sc. (Hons.), 14 ; B.Sc. (Pass), 38 ; B.L., 32 ; B.Sc. in For., 4 ; B.Sc. (Engineering), 8. Diploma in Teaching, 8 ; M.B., B.S., 10.

# THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

VISITOR—H.E. THE VICEROY OF INDIA.

DIRECTOR—M. O. FORSTER, D.Sc., Ph.D., F.I.C., F.R.S.

## TEACHING STAFF

<i>General Chemistry</i>	[Prof.	Banerjee, B., M.Sc. Calc.	Asst.
Watson, H. E., D.Sc. Lond., F.I.C.		Patwardhan, V. N., M.Sc. Bom.	
Kulkarni-Jatkar, S. K., M.Sc. Bom.	Lectr.		Asst.
Krishnaswami, K. R., B.A. Mad.	Asst.	<i>Electrical Technology</i>	
Tumminkatti, M. C., Ph.D. Ill. „		Catterson-Smith, J. K., M.Eng. Liv., M.I.E.E.	Prof.
Govinda Rau, M. A., Ph.D. Lond.	Asst.	Mirchandani, T. J., M.Sc. Lond.	Asst. Prof.
		Yoganandan, G., B.E. Mad.	Asst.
<i>Organic Chemistry</i>	[Asst. Prof.	Apte, G. V., B.E.	Asst.
Guha, P. C., D.Sc. Calc.		<i>Mechanical Engineering</i>	
Chakravarti, G. C., M.Sc. Calc.	Lectr.	Kann, J. H. C., B.Sc. Lond.	Asst. Prof.
Ayyar, Ramaswami P., M.A. Mad.	Asst.	<i>Electrical Communication Engineering</i>	[Asst. Prof.
Rao, Sanjiva B., B.A. Mad.	Asst.	Kantabet, S. R., B.A. Bom.	
<i>Bio-Chemistry</i>		Rangachari, T. S., M.A.	Asst.
.....	Prof.	<i>French and German</i>	
Subrahmanyam, V., B.A. Mad., D.Sc. Lond.	Lectr.	Row, Amrita K., M.A. Mad., L.T.	Lectr.
Ayyar, Ramaswami C. V., L.Ag.	Asst.		

## GENERAL INFORMATION

The object of the Institute, opened July 24, 1911, is to establish Chairs and Lectureships in Science and Arts, especially with a view to the promotion of original investigations and their utilization for the benefit of India, and to provide and to assist in the provision of suitable libraries, laboratories, and all other necessary appliances.

*Associateships* are awarded on the recommendation of the Senate for 5 terms (of which there are 3 in a yr.—July–Sept., Nov.–Dec., Jan.–March) devoted entirely to research work; also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. *Certificates* are granted to students who satisfactorily complete approved courses of study. 88 Associateships and 1 Fellowship have been granted.

Students reside in a *Hostel*. Messing charges are from Rs. 28 to Rs. 35 p.m.; rent, lighting, and service, Rs. 10 p.m.

PUBLICATIONS. *Calendar* (annual); Pamphlet describing history, 1911–23; *Journal of the Institute*, about 12 parts annually; *Electrotechnics*, pubd. by the Elec. Engin. Soc. The Library contains 16,000 vols.

POSTAL ADDRESS: Indian Institute of Science, Hebbal, Bangalore District. TELEGRAMS—Science, Bangalore.

THE YEAR 1928–29. *Number of Students*: Genl. and Org. Chem., 43; Bio-Chem., 30; Elec. Tech., 41.



LABORATORIES. Botany, Chemistry, Physics, Zoology.

TERMS. July-Sept.; Oct.-Dec.; Jan.-April.

Admission to the Ordinary courses is restricted to students who have passed the London Matriculation Examination or obtained exemption from it. Others may be admitted to special courses on payment of admission fee, Rs. 10 minimum.

Degree Courses are provided for the B.A., B.Sc., and B.Sc. (Econ.) of the University of London. By special arrangement the University holds its Honours examinations in Ceylon in Engl., Classics, Oriental Langs., Hist., Philos., Maths., Chem., Botany, and Zool. A Pre-Registration course in Physics, Chem., and Biol. is provided for students of the Ceylon Medical College.

ORIENTAL LANGUAGES. Courses are provided in Sanskrit, Pali, Sinhalese, and Tamil.

FEES FOR TUITION. Full course—Rs. 150 per annum plus Rs. 30 per annum extra for each science subject offered. Single subject: Arts—Rs. 15 per term; Science—Rs. 25 per term.

RESIDENCE. Protestants, Roman Catholics, and non-Christians have hostels under College supervision. Cost of board and lodging, approximately, Rs. 40 p.m.

SCHOLARSHIPS FOR GRADUATES. The Ceylon Govt. offers 7 of £300 per annum each tenable for 2 or 3 years in a British Univ.—one for Arts, one for Oriental Langs., one for Science, one for Maths., one for Agric. and Forestry, and 2 for Engineering. Candidates must have been resident in the Island for five years.

PUBLICATIONS. *Prospectus; Annual Report.*

THE YEAR 1928-29. STUDENTS: Full-time: Arts and Pure Science, 308. Part-time students, 7. DEGREES OBTAINED (Univ. of London) in 1928: B.A., 7; B.Sc., 14.

## CEYLON MEDICAL COLLEGE, COLOMBO

PRESIDENT—THE GOVERNOR OF CEYLON.

PRINCIPAL—Hon. J. F. E. BRIDGER, M.B., B.S. Lond., D.P.H. Lond.,  
Director of Medical and Sanitary Services of Ceylon.

REGISTRAR—Prof. F. O'B. ELLISON, M.D., B.Ch., B.A.O., B.A. Dublin.

### TEACHING STAFF

*Anæsthetics, and Materia Med.  
and Therapeutics*

de Silva, J., M.B., C.M. Aberd.,  
D.P.H. Camb. Lectr.  
1 Asst.

*Anatomy*

Smith, A. G., M.B. Glas., F.R.C.S.  
Eng. Prof.  
1 Demr. 1 Asst.

*Bacteriol. and Trop. Med.*

Nicholls, L., M.D., B.Ch., B.A.  
Camb. Lectr.

*Diseases of Children*

Anderson, Miss C. E., M.B., Ch.B.  
Aberd. Lectr.

*Electricity, Medical and X-ray*

Goonewardene, H. O., M.B., B.S.  
Lond., M.R.C.S. Eng.,  
L.R.C.P. Lond. Lectr.

*Forensic Medicine and Mental Diseases*

Parsons, L. D., M.B., Ch.B. Edin.  
Lectr.

*Gynæcology*

[Lectr.  
de Zilwa, L., M.D., B.Sc. Lond.

*Hygiene*

Gunasekera, S. T., M.R.C.S. Eng.,  
L.R.C.P. Lond., D.P.H.  
Lond. Lectr.

*Infectious Diseases*

Jacob, K. K., L.R.C.P. and S.,  
L.F.P. and S. Glas. Lectr.

*Materia Medica and Therapeutics, v. Anæsthetics*

[Lectr.  
Mack, E. Garvin, M.D., B.S. Lond.  
de Silva, W. L., M.D. Liv.,  
M.R.C.S., L.R.C.P. Lectr.

*Medicine, Clinical*

de Zilwa, L. (v. Gynæc.).  
Mack, E. G. (v. Med.).  
Spaar, E. C., M.D., B.S., M.R.C.S.,  
B.A. Lond.  
de Silva, W. L. (v. Med.).  
Cooke, G., M.D., B.S. Lond.,  
M.R.C.S., L.R.C.P.  
Blazé, J. R., M.B., B.S. Lond.

*Midwifery*

Peris, H. M., M.D. Bruss.,  
F.R.C.S. Edin. Lectr.

*Ophthalmology*

[Lectr.  
Arndt, E. W., M.R.C.S. Eng.,  
L.R.C.P. Lond., D.O.M.S.

Lectr.

*Pathology*

Karunaratne, W. A. E., M.D.,  
B.S. Lond.

1 Demr.

*Pharmacy*

[Lectr.  
Pinto, C. F. X., M.P.S. Lond.

*Physiology*

Ellison, F. O'B., M.D., B.Ch.,  
B.A.O., B.A. Dub. Prof.  
1 Asst., 1 Sub. Asst.

*Skin Diseases*

[Lectr.  
Spittel, R. L., L.R.C.P. Lond.,  
F.R.C.S. Eng., L.M.S. Lectr.

*Surgery*

[Lectr.  
de Silva, A. M., F.R.C.S. Eng.  
Alles, E. C., F.R.C.S. Eng. Lectr.  
*Surgery, Clinical*

Lectrs. :

Paul, S. C., M.D. Madr., F.R.C.S.

Eng.

de Silva, A. M. (v. Surg.).

Spittel, R. L., F.R.C.S. Eng.

(v. Skin Dis.).

Alles, E. C. (v. Surg.).

Gabriel, V., F.R.C.S. Eng.,

M.R.C.P. Lond.

Sinnetamby, G. S., F.R.C.S. Eng.,

L.M.S.

*Surgery, Operative*

Sinnetamby, G. S. (v. Surg. Clin.).

*Tropical Medicine*

Nicholls, L. (v. Bact.) Lectr.

Castellani, Sir A., K.C.M.G., M.D.

Flor., F.R.C.P. Lond.

Emer. Prof.

The College, founded in 1870, is controlled by a Council composed of members nominated from the teaching staff of the College, together with the Principal Civil Medical Officer of the Colony, the Assistant P.C.M.O. and the Government Assessor. The College is recognized by the Gen. Med. Council.

The Medical Depart. provides a 5 years' course for the L.M.S. (Ceylon) : the Apothecary Depart. a 2 years' course for the post of Government Apothecary or Estate Dispenser. Admission to the L.M.S. course is open only to students registered by the G.M.C., who are at least 17 years of age and have passed the London matric. examn. or an exempting examn. and a special examn. in Chemistry, Physics, and Biology.

Tuition Fee, per annum, Rs. 500. Terms : Oct. 1-Dec. 23, Jan. 4-March 31, May 1-July 31.

THE YEAR 1928-29. *Benefactions* : New Buildings : Physiological Dept. in course of erection. *Students* : L.M.S., 118 ; Apothecary, 66. *Diplomas* granted : L.M.S., 13 ; Apothecaries, 19.

# KING EDWARD VII. COLLEGE OF MEDICINE, SINGAPORE

PATRON—The GOVERNOR OF THE STRAITS SETTLEMENTS.

PRESIDENT OF COUNCIL—The Hon. A. L. HOOPS, B.A., M.D., D.P.H.  
Dub., Principal Civil Medical Officer, Straits Settlements.

PRINCIPAL—G. H. MACALISTER, M.A., M.D., D.P.H. Camb.

ACTING-PRINCIPAL—G. V. ALLEN, M.D., B.Ch., B.A.O., D.T.M. and H.  
Lond.

## TEACHING STAFF

### *Anæsthetics*

Barnsley, A., M.R.C.S. Eng.,  
L.R.C.P. Lond. Lectr.

### Tutors in Clin. Med. :

Norris, V. H., L.M.S.

Haridas, G., L.M.S.

### *Anatomy*

Harrower, J. G., M.B., Ch.B.  
Glas. Prof.

### *Midwifery and Gynæcology*

English, J. S., B.A., M.D., B.Ch.,  
B.A.O., L.M. Dub. Prof.

### *Bacteriology*

Young, W. A., B.Sc., M.B.,  
B.S. Lond., D.T.M. and H.,  
Lond. Prof.

### *Pathology and Forensic Medicine*

Tull, J. C., M.D. Tor., M.R.C.P.  
Lond. Lectr.

Tham Ying Khaw, L.M.S.  
Asst. in P.

### *Bio-Chemistry*

Rosedale, J. L., Ph.D. Bonn,  
D.Sc. Aberd. Prof.

### *Pharmacy*

Roebuck, T., M.P.S. Lectr.

Oliveiro, C. J., L.M.S. Asst.

### *Physics*

Madgwick, E., M.Sc. Durh., Ph.D.  
Camb. Prof.

### *Biology*

Williamson, K. B., M.A. Camb.,  
Dip. Agric. Camb., D.I.C. [Prof.]

### *Physiology and Pharmacology*

Kay-Mouat, J. R., M.A. Ox., M.B.,  
B.Ch., D.P.H., M.Sc. Brist.

King Edward VII. Prof.

### *Chemistry*

McOwan, G., M.A., B.Sc., Ph.D.  
St. And. Prof.

### *Public Health*

Sayers, F. R., M.D., D.P.H. Dub.  
Lectr.

### *Eye Diseases, v. Surg.*

Gross, R. D., M.B., B.S. Lond.,  
M.R.C.S., L.R.C.P., D.T.M.  
and H. Lond. Lectr.

### *Infectious Diseases*

Gilmour, C. G. B., M.B., B.Ch.  
Glas. Lectr.

### *Radiology*

Webster, J. S., M.B., B.S., D.P.H.  
Vict., D.M.R.E. Camb. Lectr.

### *Mental Diseases*

Stone, E. R., M.B., B.Ch. Camb.  
Lectr.

### *Surgery*

Black, K., F.R.C.S. Eng., L.R.C.P.  
Lond., L.D.S., R.C.S. (Lectr.  
in Eye Diseases) Prof.

### *Medicine*

The Principal Prof.  
Hawes, R. B., M.B., B.Ch. Prof.

Smith, C. J., F.R.C.S. Edin.	<i>Therapeutics</i>
(Senr. Surgeon, Singapore)	The Principal.
Prof.	
Balhatchet, W. A., L.M.S.	<i>Venereal Diseases</i>
Tutor in Clin. Surg. (Lectr.).	Lupton, W. M., M.R.C.S., L.R.C.P.
Apparajoo, R., L.M.S.	Tutor. Lectr.

## GENERAL INFORMATION

The Coll. is a Government institution, partly endowed by public subscription, managed by a Council of Govt. officials and private members, with the Principal Civil Medical Officer as President, advised by a Senate composed of the professors and lecturers with the Principal as Chairman. It owes its name to a large donation from a King Edward VII. Memorial Fund, which enabled the Council in 1913 to endow a Chair of Physiology.

The *Diploma* in Medicine, Surgery, and Midwifery was recognized by the General Medical Council in 1916.

*Admission* qualifications: (1) The Cambridge School certificate, with English (special Malayan paper), another language, and Maths. as compulsory subjects, and two of the following—Hist., Geog., Chem., Physics, Bot., Expl. Sc., Applied Maths.; or (2) certificates of equivalent standard, e.g. London Matricn., recognized by the General Medical Council as qualifying for registration as Med. students. Candidates must be of good physique.

TERMS. Trinity—June 1 to Aug. 31; Michaelmas—Oct. 1 to Dec. 20; Lent—Jan. 3 to March 31.

Composition FEE for complete 6-year course, covering tuition, hospital tickets, and examns. (except fees for re-examn.), \$750.

RESIDENCE, ETC. Hostels for 122 students. There is a Students' Union.

THE YEAR 1928-29. *Number of Students*, 115.

## RAFFLES COLLEGE, SINGAPORE

PATRON—THE GOVERNOR OF THE STRAITS SETTLEMENTS.

PRESIDENT—R. O. WINSTEDT, C.M.G., M.A., D.Litt. Ox. (acting).

### PROFESSORS, LECTURERS, ETC.

<i>English Lang. and Lit.</i>	<i>Mathematics</i>
Gillett, E. W., M.A. Ox.	Butchart, R. K., B.Sc., Ph.D.
Johore Prof.	St. And., F.R.S.E. Prof.
..... Lectr.	..... Lectr.
<i>History</i>	<i>Chemistry</i>
Dyer, W. E., M.A. Ox.	McOwan, G., M.A., B.Sc., Ph.D.
Actg. Prof.	St. And., F.I.C. Prof.

.....	Lectr.	By arrangement with King Edward VII. College of Medicine:—
<i>Geography and Education</i>		
Amon, H., M.C., B.A. Lond.		
	Reader.	<i>Physiology</i> [Prof. Kay-Mouat, J. R., M.A. Ox., M.B. B.Ch., D.P.H., M.Sc. Brist.
<i>Physics</i>		
Madgwick, E., M.C., M.Sc. Dun., Ph.D. Camb.	Prof.	<i>Biology</i> Williamson, K. B., M.A., Dipl.Agr. Camb., D.I.C.
.....	Lectr.	Prof.

## GENERAL INFORMATION

This is a non-Government institution, endowed partly by the Straits Settlements and some of the Malay States and partly by public subscription, managed by a Council of Government officials and private members and advised by a Senate composed of the Professors and of the Principal of King Edward VII. College of Medicine, Singapore, with the President as Chairman. It opened in June 1928, and now has 79 students.

**ADMISSION.** Students will be admitted to the College only after they have reached the age of seventeen, although exceptions may be made for students who have reached the age of sixteen and can furnish a special recommendation from their schools.

Before admission all students must be examined as to physical fitness, and will be accepted only if their standard of health is good. To qualify for admission students must submit a certificate of character from their last school, and must have passed one of the following examinations: (a) The Malayan Cambridge Certificate Examination, or the ordinary Cambridge Certificate Examination with a pass with credit in English; (b) The Final Examination for a degree in Arts or Science in any University of the United Kingdom or British Dominions; (c) The Matriculation Examination of any University in the United Kingdom or British Dominions; (d) Any other examination specially approved by the Senate of Raffles College.

Persons not members of the College may be admitted, with the approval of the President, to attend a course of lectures on any subject, on payment of a fee of \$20 a term.

**CERTIFICATES** are given to students who pass the examination in one of the three main groups (English, Mathematics, and Science) at the end of their second year, and diplomas to those who pass a three yrs.' course. The standard of instruction given in the three yrs.' course aims at that of London Univ. B.A. (Hons.) and B.Sc. (Hons.) in principal subjects, and a pass degree standard in subsidiary subjects. Students are also admitted to study for external degrees of London Univ.

**TERMS.** Trinity—June 1-August 10; Michaelmas—October 4-December 13; Hilary—January 4-March 15.

**FEES** for tuition, \$300 (\$1 = 2s. 4d.); board and lodging, \$360 p.a.

**RESIDENCE.** A hostel for 60 students has been opened, and a second hostel to accommodate the same number is nearly ready.

# UNIVERSITY OF HONG-KONG

PATRON—H.M. THE KING.

CHANCELLOR—THE GOVERNOR OF HONG-KONG.

VICE-CHANCELLOR AND PRINCIPAL—WILLIAM WOODWARD HORNELL,  
C.I.E., M.A.

CHAIRMAN OF CONSULTING COMMITTEE IN LONDON—Sir CHARLES  
ADDIS, K.C.M.G., LL.D.

REGISTRAR—W. B. FINNIGAN.

LIBRARIAN—Mrs. M. E. M. RING, M.Sc.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting &amp; Business Practice</i>	Morley, D. W., M.A. Camb. Lectr.
Martin, T. A., A.S.A.A. Lectr.	Redmond, F. A., B.Sc. Lond.
<i>Anatomy</i>	Prof. of Civil E.
Shellshear, J. L., D.S.O., M.B., Ch.M. Syd. Prof.	Braga, H., B.Sc. Demr. in C.E.
Wong, R. J., M.B., Ch.M. Syd.	Weller, F. C.
Tutor.	Workshop Instructor.
<i>Anatomy, Morbid</i>	<i>Engineering, Electrical</i>
Cannon, A., M.A., Ph.D., M.B., Ch.B. Teacher.	Roffey, M. H., D.S.O., M.Sc., M.I.E.E. Prof.
<i>Biology</i>	Day, I. Demr.
Herklots, G. A. C., Ph.D., B.Sc.	<i>English</i> [Prof.]
Reader.	Simpson, R. K. M., M.A. Edin.
[Prof.]	Birch, B. G., B.A. Bristol
Byrne, G. T., M.Sc. Manc., A.I.C.	Lectr. and Tutor.
Hill, R. A., M.Sc., A.I.C. Lectr.	Hartnell, A. Braine, B.A. Ox.
Chan, C. L. Demr.	Lectr. and Tutor.
<i>Chinese</i>	<i>History</i> [Reader.]
An Tai Tin (Hanlin) Reader.	Hughes, H. G., M.A. Camb.
Lai Hsi Chi (Hanlin) Reader.	<i>Law and Politics</i>
Wan Shok Lectr.	Robertson, R., M.A. Prof.
<i>Economics and Commerce</i>	<i>Mathematics</i>
Lectr.	Brown, W., M.A., B.Sc. Glas.
<i>Education</i>	Prof.
Forster, L., M.A. Prof.	<i>Medicine and Surgery, v. infra</i>
<i>Engineering, Civil and Mech.</i>	<i>Physics</i>
Smith, C. A. Middleton, M.Sc.	Faid, W., M.Sc. Durham Prof.
Birm., M.I.M.E.	Davies, D. F., B.A. Ox. Lectr.
Taikoo Prof.	Un Po, B.Sc. Demr.
Fenwick, A. H., B.Sc. Lectr.	<i>Physiology</i>
	Ride, L. T., M.A., M.B., B.Ch., M.R.C.S., M.R.C.P. Prof.

Wong, S. Y., M.Sc., Ph.D. Col-  
umbia Tutor.

*Ophthalmology*

.....

Lectr.

*Medicine*

*Hygiene and Pub. Health*

..... Lectr.

*Medical Jurispr.*

Minett, E. P., M.D., M.R.C.S.,  
D.P.H., D.T.M. & H. Lectr.

*Medicine*

[Prof.

Gerrard, W. I., M.D., F.R.C.P.  
..... Lectr. (Radiology).

Li, T. Y., M.D., B.S., D.T.M. & H.  
Asst.

*Obstetrics & Gynaecology*

Tottenham, R. E., B.A., M.D.,  
Ch.B., B.A.O., F.R.C.P.I.,  
L.M., D.P.H. Prof.

Pillai, D. Kumarasamy, M.D., B.S.,  
L.M. Rotunda Asst. to Prof.

*Pathology*

Wang, C. Y., M.D. Edin., B.Sc.  
Manc., F.R.C.P. Edin.,  
D.P.H., D.T.M. & H. Prof.  
Osman, M. B., M.B., B.S. Asst.  
Wong, S. Y., M.Sc., Ph.D. Lectr.

*Pharmacology and Therapeutics*

Valentine, D. J., M.B., B.S.,  
M.R.C.S., D.T.M. & H. Lectr.

*Surgery*

Digby, K. H., M.B., B.S. Lond.,  
F.R.C.S. Eng. Prof.  
Hsiu Shih Tse, M.B., B.S.  
Asst. to Prof.

*Tropical Medicine*

Thomas, G. H., M.D., B.S. Lectr.

## GENERAL INFORMATION

The Univ. was incorporated in 1911 and formally opened in 1912. For early history, see *Year Book* for 1929. The buildings, including class-room accommodation for 500 students, three hostels, laboratories, etc., together with playing-fields, occupy an area of 25 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by three Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians . . . subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919-20).

The Court is composed of life, *ex-officio*, and nominated members; the Council is composed of the Chancellor, the Vice-Chancellor, the Treasurer, certain Government officials, the Chinese members of the Legislative Council, Deans of Faculty, and two representatives of the commercial community, with power for the Governor to appoint two additional members. The Senate consists of the Vice-Chancellor, the Director of Education, the Professors and Readers.

MUSEUM of Pathology and Trop. Med. LABORATORIES: Anat., Bact., Biol., Chem., Histol., Path., Physics, Physiol., Trop. Med.; Applied Mechanics, Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec. Traction, Engin. and Carpentering workshops. HOSPLS. in the vicinity available for clinics, 400 beds; Govt. Bacteriological Inst. and Mortuary.

FACULTIES. Medicine, Engineering, Arts. There is also a School of Chinese studies and a separate Language School for the teaching of Cantonese.

TERMS. Jan. 3-May 18; Sept. 11-Dec. 7.

MATRICULATION examn. (framed for use also as a School Leaving examn.) includes (a) English, (b) Maths., (c) Chinese Lang. and Lit., (d) Latin or a

Classical Oriental Lang. other than Chinese, (e) Geog., (f) a Modern Lang. other than English or Chinese, (g) Mandarin, (h) Hist., (i) Physics, (j) Chem., (k) Higher Maths., (l) Trigonometry, (m) Mechanics, (n) Drawing. (a) and (b) are compulsory for all, and (c) for all Chinese candidates. It is necessary to pass in 5 subjects, and for the Med. Faculty these must include (c), (d) or (f), and (e) or (h). Medical students are registered after passing an examn. in physics, chemistry, and biology subsequent to general matriculation.

**DEGREES.** B.A., B.Sc. (Eng.), M.A., M.Sc. (Eng.), M.B., B.S., M.D., M.S. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree examns. residence for 8 (in Med.—10) terms is necessary; the 5 years' medical course dates from registration as medical student (see preceding paragraph); 3 yrs. are devoted to clinical work subsequent to passing an examn. in anatomy and physiology.

The examn. for the Master's degree may be taken at the end of 2 yrs. after graduation as Bachelor. For the M.A. or M.Sc. a thesis is required; for the M.S., evidence of special post-graduate experience. The examn. for the M.D. may be taken 5 yrs. after graduation, or at the end of 2 yrs. if evidence is produced of special post-graduate experience.

Graduates of other Univs. who wish to become candidates for a Master's degree must work under the direction of the Faculty concerned for at least 1 yr.

The Degree of B.A. may be obtained in any one of 3 Depts. under 6 "groups" of studies. (a) *Pure Arts and Science*: Group 1, Letters; 2, Experimental Science; 3, Social Science. (b) *Training of Teachers*: Group 4 (a), Science and Maths.; 4 (b), General. (c) *Commerce*: Group 5, Commercial Training.

**FEES** for tuition, \$300 p.a.; board and lodging, \$300; Univ. Union, \$15; books and charges for materials, etc., in Labs., about \$100. It is claimed that there is no European Univ. where a foreign student can live so cheaply.

**RESIDENCE.** All students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns. approved by the Council.

**THE YEAR 1928-29.** *Matric. Examn.*: 37 schools presented candidates for this Examn., some from places as distant as Batavia, Singapore, and Canton.

**BENEFACTIONS.** \$50,000 from Kwok Siu Lan; \$60,000 from Mr. Tang Chi Ngong; \$200,000 from the Chinese community.

**NEW BUILDINGS AND POSTS.** School of Biology and Reader in Biology.

**VISITS.** Prof. R. Peers from University Coll., Nottingham, and Sir Archibald Strong from Adelaide University.

**RETIREMENT.** Prof. W. J. Hinton.

**HONORARY DEGREE.** LL.D.—His Honour Mr. R. F. Johnson, C.M.G.

**STUDENTS.** Full-time, 315; part-time, 19.

**DEGREES.** B.A., 16; B.Sc. (Eng.), 9; M.B., B.S., 17.

## APPENDICES

# I

## REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

\* *Regulations issued with Army Orders* for June 1924 provide for Commissions being granted in the Cavalry, R.A., R.E., Royal Corps of Signals, Infantry Royal Tank Corps, and in the Indian Army. Nominations of graduates who have certain prescribed qualifications are accepted by the Army Council from the following Universities: I. Oxford, Cambridge, London, Edinburgh, Manchester, McGill, Sydney, Toronto; II. The other universities of Great Britain, Northern Ireland, Univ. of Dublin, and the Dominions. Univs. in Group I. have established courses of military study, and their candidates will be commissioned as senior to candidates whose qualifications are in other respects equal. The grant of graduate commissions in the Indian Army is limited to candidates from univs. in Great Britain and Northern Ireland. Commissions of accepted candidates will be antedated approximately 18 months according to qualifications as defined in a prescribed scale.

Among the necessary qualifications are: to be within the age limits 21-24, and to be unmarried.

The regulations giving full details of qualifications—general, academic, military, and physical—are obtainable from the War Office.

For the present the Army Council are prepared to accept 100 candidates a year from the Univs.

*Permanent Commissions in the General Duties Branch of R.A.F.* Permanent commissions in the General Duties Branch of the R.A.F. are granted to university candidates by the Air Council on the recommendation of their Universities. Officers of the General Duties Branch are taught to fly and undertake flying, technical, and administrative duties of the R.A.F. They are given opportunities for widely differing types of study and of specialized employment.

Recommended candidates must be graduates of a University in Great Britain or Northern Ireland; must be unmarried and within the age limits 20-25. Recommended candidates are invited to attend before a selection board which sits at the Air Ministry, in Oxford, in Cambridge, and at the Univ. of London. Selected candidates are granted commissions as pilot officers as from the date on which they join a training unit and, subject to the proviso that a commission will not be antedated to a date earlier than an officer's 20th birthday, the commissions will be antedated so as to give seniority as pilot officers from a date 12 months prior to the date of their effective gazettement to the R.A.F. Candidates who have graduated with either first- or second-class honours may also be granted an additional antedate of 6 months regulated by age, as in the case of the general antedate. In consequence of these privileges,

\* Revised regulations will be issued at an early date.

candidates will normally become eligible for promotion to flying officer after 6 months. Promotion to the ranks of Flight Lieutenant and Squadron Leader is by seniority modified so as to give accelerated promotion to officers who qualify for technical, staff, or other special employment, and to officers who are recommended as being exceptionally suitable. Promotion to higher ranks is by selection. Emoluments in the R.A.F. have been fixed so as to allow officers even in the lowest ranks to live on their pay.

Intending applicants should write for information to the Secretary of the Air Ministry, Kingsway, London, W.C.2; applicants from Oxford or Cambridge should also get into touch with the University Air Squadrons. The conditions under which commissions are granted to graduates of certain recognized Universities in the self-governing Dominions can be obtained from the Government of the appropriate Dominion.

## II

### INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E.C.2.

The *Preliminary* examn. for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle-upon-Tyne about the middle of May and November. It embraces: Dictation and short Engl. Composition, Arith., Algebra and Geom., Geog., Hist., a foreign language (Latin, Greek, French, German, Italian, or Spanish), and one of the following—Advanced Maths., Physics, Chem., Geol., Stenography. Exemption is allowed to persons who have passed certain other examns., such as Oxford Responsions, Cambridge Previous, and London Matricn. Minimum age for articles is 16.

The *Intermediate* examn. for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts and the Accounts of Limited Companies), Auditing and General Commercial Knowledge.

The *Final* examn. may not be taken till 2 yrs. after passing the Intern., but graduates articled for 3 yrs. only may take it 1 yr. after Intern. No person may enter for the Final unless he has served under Articles in England or Wales to a member for 5 yrs. (or, in the case of a graduate of a Univ. of the U.K., for 3 yrs.). It embraces Advanced Book-keeping and Accountancy, including Costing and Taxation, Auditing, Partnership and Executorship Law and Accounts, Principles of Law of Bankruptcy and of Law relating to Joint Stock Companies, the Rights of Liquidators, Trustees and Receivers, Principles of Mer-

cantile Law and of Law of Arbitrations and Awards, and as an additional subject, either Banking, Currency and Foreign Exchanges, Economics or Actuarial Science. (The last subject will be omitted after the May 1930 examns.)

The *Fee* for admission to any of the examns. is 2 gs., and for Certif. of Exemption 1 g. Thirty days' notice is required, and late entries will only be accepted up to 15 days on payment of a late fee.

No person may be admitted as *Associate* (fee 10 gs.) who has not passed the Final examn. The minimum age for admission is 21. Any person who, being an Associate, has for 5 yrs. been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs.). Distinctive initials: A.C.A., F.C.A.

## SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885. *Address*—Incorporated Accountants' Hall, Victoria Embankment, London, W.C.2.

*Organization. Branches*: in Scotland, Ireland, South Africa, Australia, and Canada, and 20 District Societies throughout the U.K. Students' Societies are attached to all Branches and District Societies.

*Membership*. Upwards of 5000, incl. women. Members, designated "Incorporated Accountants," are of two classes—Fellows (F.S.A.A.), and Associates (A.S.A.A.). Fellows must be either Accountants in Public Practice or Accountants to leading Public Bodies. Associates on election must be Accountants in Public Practice, Clerks to Accountants in Public Practice, or Accountants in the service of the Govt. or of Municipal Corporations.

*Articles*. Articles of Clerkship for 5 yrs. (reducible to 3 yrs. for approved Univ. Graduates) are a condition precedent to sitting for the professional Examns., except in cases of candidates of mature age having 9 yrs. approved *bona fide* professional experience, who are admitted to the Examns. without Articles upon conditions laid down in the special Bye-laws.

*Examinations and Fees*. The Examns. are three: the *Preliminary* (fee, £2 : 2s.), to be passed before entering into Articles of Clerkship; the *Intermediate* (fee, £2 : 12 : 6d.), to be taken at the expiration of 2 yrs. of his term of Articles; and the *Final* (fee, £3 : 3s.), to be taken during the last yr. of his Articles. Hons. Certifs., Prizes, and Medals are awarded. The Examns. are held during May and Nov. in London, Manchester, Cardiff, Leeds, Dublin, Belfast, Glasgow, Cape Town, Johannesburg, and Durban. Exemption from the Prelim. Examn. (fee, £1 : 11 : 6) obtainable upon production of certain Educational certifs.

*Publications*. *Yearbook*, 3s.; *Journal*, monthly, 12s. 6d. p.a.; *Examn. Questions*, 1s.

## CHARTERED ACCOUNTANTS OF SCOTLAND

The Society of Accountants, Edinburgh	$\left\{ \begin{array}{l} \text{incorp'd.} \\ \text{by Royal} \\ \text{Charter} \end{array} \right\}$	1854.
The Institute of Accountants and Actuaries, Glasgow		1855.
The Society of Accountants, Aberdeen		1867.

Secretary of the General Examining Board—D. Norman Sloan, C.A.,  
190 West George St., Glasgow.

A five-year apprenticeship with a Chartered Accountant of Scotland is required (reduced to 3 for graduates of a Univ. in G.B. or Ireland). Minimum age for apprenticeship, 17 years. Fee of £10:10s. payable on registration of Indenture of Apprenticeship, to Society or Institute to which apprentice's master belongs. Persons desirous of serving an apprenticeship must pass an examn. in Engl., Maths., a language other than English; and a 4th subject, of the standard of the Scottish Entrance Board's examns., or the equivalent (graduates of a Univ. in G.B. or Ireland exempted). The Intermed. Examn., fee 1½ gs., comprising Arith. and Statistics, Actuarial Science, Book-keeping, Accounting, must be passed during the last 3 years of apprenticeship. The Final examn. may be taken in two divisions either separately or together, the 2nd being taken after the expiry of the apprenticeship. Fees, 1½ gs. and 2 gs. (or 3½ gs.). Certain courses must be taken at one or other of the local univs. before the apprentice presents himself for either of the two divisions. This examn. embraces Pol. Econ., appropriate Scottish Law, Book-keeping and Accounting, Insolvency, Trust, Income Tax, Cost, and other Accounts. The examns. are held in May and December. Distinctive initials: "C.A."

## INSTITUTE OF ACTUARIES

Established 1848. Incorporated by Royal Charter, 1884. *Address*—Staple Inn Hall, Holborn, London, W.C.1.

Examinations qualifying for membership are held in May of each year, or at such other times as may be prescribed by the Council. Candidates must give 14 days' notice. Applications for examn. outside the U.K. must reach the Hon. Secretaries 2 months before the date of examn.

Candidates for *Studentship* must have passed: (1) a preliminary examn.; (2) Part I. of the Institute's own Examn. Syllabus (Advanced Algebra, Finite Differences and Elementary Calculus).

Candidates for *Associateship* must be "Students" and have passed Parts I., II., and III. of the Syllabus. Candidates for *Fellowship* must be Students or Associates and pass the 4 Parts of the Syllabus. *Examn. Fees*, 1½ gs. for each Part. Distinctive initials: A.I.A., F.I.A.

## THE CHARTERED INSURANCE INSTITUTE

Founded 1897, and incorporated by Royal Charter, 1912. *Address*—11 Queen St., London, E.C.4. Membership consists of the members of Local Insurance Insts., of which there are 39 in the U.K. There are also 9 affiliated Institutes in Toronto, Adelaide, Melbourne, Sydney, Perth, Cape Town, Johannesburg, Hobart, and Launceston. Examns. qualifying for Associateship (A.C.I.I.) and Fellowship (F.C.I.I.) are held in March. Journal published annually.

## III

## INSTITUTE OF PUBLIC ADMINISTRATION

Established 1922 to develop the Civil Service and other Public Services (both national and local) as a recognized profession, and to promote the study of Public Administration in this and other countries. *Offices*—Palace Chambers, Bridge St., Westminster, S.W.1.

Regional Groups have been founded in Birmingham, Manchester, Edinburgh, Liverpool, Leeds, Nottingham (East Midlands), Sheffield, Newcastle, Glasgow, Hull, Pretoria (South Africa), Adelaide (South Australia), and Melbourne (Victoria); and are in course of formation at Bristol, East Anglia, Cardiff, and Belfast. Monthly lectures for members and associates are held in the towns where Groups have been already founded, and at Montagu House, Whitehall, London. Courses of lectures are also given in connexion with the Univs. of Birmingham, Manchester, Liverpool, Leeds, Sheffield, Glasgow, and London. Subscription—Members, 2 gs.; Associates,  $\frac{1}{2}$  g. per annum, and 25s. for members outside Great Britain and Ireland. The Journal, *Public Administration*, is published quarterly by the Oxford University Press (annual subs. 10s. post free), and a members' circular (*Monthly Notes*) each month from Oct. to July.

# IV

## AGRICULTURE, DAIRYING, HORTICULTURE, ETC.

### NATIONAL AGRICULTURAL EXAMINATION BOARD

The Board was appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W.C.1) and the Highland and Agricultural Society of Scotland (3 George IV. Bridge, Edinburgh), and includes representatives of the Ministry of Agr. and Fisheries and the Department of Agr. for Scotland.

An examn. in the *Science and Practice of Agriculture* is held annually for the National Diploma in Agr. (N.D.A.). Qualifications for admission: a certificate from a recognized Agr. College that his attainments in General Bot. and Chem., Geol., Physics, and Mechanics justify the candidate's admission; or evidence of (a) having passed the 1st B.Sc. or Interm. examn. in Science of a British Univ.; or (b) having passed the Oxford or Cambridge School Certificate examn., with evidence of having continued study of science for at least a yr., and a certif. in Elem. Chem. and Physics and Bot. of Group H of the Oxford Higher Local or in Group E of the Cambridge Higher Local examn.; or (c) Interm. Leaving Certif. of the Scottish Ed. Dept., with evidence of having continued study for at least another yr., and the Higher Leaving Certif. in Science, including Chem. and Bot. Before the first three written papers are taken, candidates must also produce evidence of having resided on a farm for a period (or 2 periods) covering a complete year of farming operations. The subjects of the written papers are Practical Agr.; Farm Machinery and Implements; Land Surveying and Farm Buildings; Agr. Chem., Bot., Book-keeping and Zool.; Vet. Sc. They may be taken all at one time, or 3, 4, or 5 in one yr. and the remainder the next yr. Fee (non-returnable) for entire examn., 6 gs.

### NATIONAL DAIRY EXAMINATION BOARD

The Board consists of representatives of the Agricultural Society of England, the Highland and Agricultural Society of Scotland, and the British Dairy Farmers' Association. Address: 28 Russell Square, London, W.C.1.

An examn. in the *Science and Practice of Dairying* is held annually in England and Scotland for the Nat. Dipl. in Dairying (N.D.D.).

Qualifications for admission: (a) a Diploma course in the subjects of the Examn. covering two academic yrs., including at least 6 session months' instruction in practical dairy work at an approved dairy training institution; also (b) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (a)). The examn. includes tests of practical skill in Dairying and of the candidate's knowledge.

The examns. are held in England and in Scotland. A candidate may not enter for the examns. in both countries.

*Examn. papers of past years* (6d. a set) and a detailed syllabus of subjects of examn. are obtainable.

### HORTICULTURE

The Examns. for the National Diploma (N.D. Hort.) were established in 1912 by the ROYAL HORTICULTURAL SOCIETY, Vincent Square, London, S.W.1. They are usually held in May and June in London and elsewhere. The *Preliminary* examn. is open to candidates who have received a sufficient general education, who are at least 21 yrs. of age and have served at least 4 yrs. in a public or private garden or nursery, or taken a 4 yrs.' course in an approved Horticultural Institution, or spent 4 yrs. partly in the former and partly in the latter. The *Final* examn. is open to candidates who have passed the preliminary examn. and have been regularly employed in the practice of Horticulture for at least 6 years.

*Gardening Scholarships.* An annual scholarship is offered, value £50, tenable for 2 yrs. on the results of an examn. designed to test ability to profit by a course in horticulture, and open to men between the ages of 18 and 22 yrs. on Oct. 1. Candidates must either hold a school-leaving cert., or have been engaged in horticulture for at least 2 yrs. before Oct. of the scholarship year.

Fuller particulars and entry forms from The Secretary, Royal Horticultural Society, Vincent Square, London, S.W.1.

### NATIONAL POULTRY DIPLOMA EXAMINATION BOARD

This Board, formed by the National Poultry Council, includes representatives of the Ministry of Agriculture, the Scottish Board of Agr., the Dept. of Agr. for Northern Ireland, Leeds Univ., S.E. Agr. College (Wye), Harper Adams Agr. College, Reading Univ., and several other bodies. The Chairman is P. Hedworth Foulkes, B.Sc., late Principal of Harper Adams Agr. College, Newport, Salop. It holds examns. annually and awards a National Diploma in Poultry Husbandry (N.D.P.) and a Public Elementary and Secondary School Teachers' Certificate in Poultry Husbandry.

Qualifications for admission to the Diploma examns. (fee 5 gs.): i. Passing the Board's Prelim. examn. (fee 2 gs.) in Elem. Chem., Physics, Biol., and Maths., or producing other satisfactory evidence, *e.g.* Matriculation certificate, of knowledge of the above-mentioned sciences; ii. Training in Poultry Husbandry in a recognized Teaching Instn. for at least a year; iii. Experience on an approved Poultry Farm for at least a year. The subjects of the examn. are Poultry Husbandry in all branches and, in so far as they relate to this, Agr. and Horticulture, Physiology, Pathology, Chem. and Physics, Building and Appliance Construction, Bookkeeping. Next examn. Sept. 1930.

Applications receivable by the Secy., National Poultry Council, 20-21 Essex St., London, W.C.2.

## V

## ROYAL INSTITUTE OF BRITISH ARCHITECTS

Founded 1834. Incorporated by Royal Charter in 1837. *Address*—9 Conduit St., Regent St., London, W.1.

The Recommendations of the R.I.B.A. in regard to preliminary and professional education imply a course of professional training in schools occupying at least five years, during the last 2 yrs. of which the student would be working part-time in an architect's office—the training being kept under the supervision of the Board of Architectural Education of the R.I.B.A. or its delegates during the whole term.

*Registration as Probationer, R.I.B.A.* (fee 4 gs.). Candidates must produce evidence of good general education. This evidence, except in very special cases, must be (a) a certif. from one of the Schools of Archit. recognized for exemption from the R.I.B.A. Examns., to the effect that the applicant has passed, or has received exemption from the School Entrance Examn., or (b) a certif. of having passed one of the public examns. recognized by the R.I.B.A. for the Probationership. All applicants must submit drawings showing that they possess some knowledge of Drawing, except (a) when the applicant submits a certif. of having passed or received exemption from the Entrance Examn. to one of the Recognized Schools of Archit., or (b) when the applicant submits a certif. of having passed one of the recognized public examns. with credit in Drawing or Art. Candidates who are unable to submit certifs. of general education in accordance with the regns. may make special applications, which will be considered on their merits by the Board of Architectural Education. A list of the Recognized Schools of Archit. is given in the following paragraphs, and particulars regarding them are given in the "Explanatory Pamphlet," see below.

The *Intermediate* examn. (fee 5 gs.), open to Probationers of at least 19 yrs. of age, tests their progress while engaged as pupil, improver, or assistant in an office, and passing it qualifies for election as *Student*, R.I.B.A. Exemption from this examn. (but not from the fee) may be granted to Probationers who have attended the necessary courses at one of the following schools: Architectural Assocn., London; Northern Polytechnic, London; Universities of Cambridge, Liverpool, London, Manchester, Sheffield; Birmingham School of Arch.; Armstrong College (Newcastle); Leeds College of Art; The Technical College, Cardiff; Royal West of England Academy, Bristol; The Leicester College of Arts and Crafts; The Municipal School of Arts and Crafts, Southend-on-Sea; Robert Gordon's College, Aberdeen; Edinburgh College of Art; Glasgow Sch. of Arch.; McGill Univ., Montreal; Univs. of Manitoba and Toronto; Sydney Univ.; Univ. of Witwatersrand; Bombay School of Art. The R.I.B.A. desires that Students within reach of these Univs. and Schools should avail themselves of the oppor-

tunities thus afforded rather than submit themselves for the examn. without such recognized training.

The *Final* examn. (fee 6 gs.) for the *Associateship*, R.I.B.A., is open to Students of at least 21 yrs. of age. Before admission a candidate must submit for approval designs in answer to at least 4 problems set by the Board, and a thesis in Historical Arch., or in Science as applied to building, or in Design, including Decoration. Exemption from the *Final* examn., with the exception of that portion which deals with Professional Practice, is given to Students who have completed successfully a Diploma or Degree course covering at least 5 years at the Arch. Assocn., London, Liverpool Univ., London Univ., Manchester Univ., Robert Gordon's Colleges, Aberdeen, Glasgow Sch. of Arch., Edinburgh Coll. of Art, Technical Coll., Cardiff, McGill Univ., Montreal, Sydney Univ., Witwatersrand Univ.

A *Special* examn. (fee 10 gs.) for the *Associateship* is held in July and Dec. It is open to Architects in practice and Assistants not less than 30 yrs. of age and exempts from the Prelim. and Interim. examns. and from submitting testimonies of study.

A *Licentiate* (L.R.I.B.A.) is a fully qualified corporate member, and is entitled to the designation "Chartered Architect."

Examns. (fee 3 gs.) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held periodically

o. *Allied Societies* and branches thereof exist in 51 towns in the U.K., in Montreal, Edmonton (Alta.), Toronto (Ont.), Regina (Sask.), Vancouver (B.C.), Winnipeg (Man.), Moncton (N.B.), Adelaide, Melbourne, Brisbane, Sydney, Hobart, Perth, Wellington (N.Z.), Cape Town, Bulawayo, Bloemfontein, Durban, Johannesburg, Nairobi, Singapore, Bombay, and Rangoon.

The Royal Institute of British Architects offers a number of Prizes and Studentships, particulars published annually in the *R.I.B.A. Prizes and Studentships Pamphlet*, price 1s.

*Publications* include the *Kalendar*, 3s. 9d., containing, *inter alia*, a historical sketch, regns. for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, 1s. 6d. each. *Explanatory Pamphlet on Examns.*, 1s. and postage. *Past Examns. Questions*, price 1s. and postage.

## VI

### AUCTIONEERS' AND ESTATE AGENTS' INSTITUTE OF THE UNITED KINGDOM

Founded 1886. *Address*—29 Lincoln's Inn Fields, London, W.C.2.

Examinations are held annually in March in London, Birmingham, Bristol, Cardiff, Manchester, Newcastle-upon-Tyne, and Belfast.

The Preliminary (fee 1 g.) is for the grade of *Student*, the Inter-

mediate (fee 2 gs.) for the grade of *Licentiate*, and Final (fee 3 gs.), or the Direct Final (fee 5 gs.), for the grades of *Associate* (A.A.I.) and *Fellow* (F.A.I.).

The subjects of the *Preliminary* are English, Arith., Algebra, Geometry, Mod. English, Hist., and one only of the following *optional subjects*, French, Latin, German, Modern Geog., Gen. Knowledge. Exempting examns.: Matricn. of a Univ. in the U.K., Prelim. of Law Soc., Surv. Instn., Inst. C.A., Soc. of Inc. Acctts. and Audtrs., Special Army Ed. Certif., London Chamber of Com. (Comm.), and the school certificate examns. conducted by certain Universities.

The *Intermediate* is open to Student Members and Articled Clerks and others who have gained practical experience. Minimum age, 19. The subjects are Book-keeping, Plans and Mensuration, Valuation Tables, Law of Landlord and Tenant, Dilapidations and Fixtures, and 2 out of 5 other subjects. *This examination is open only to those who have passed or been exempted from the Institute's Preliminary Examn.* unless the candidate is 25 years of age or over, when he is required to take the 2 additional subjects of English and Arithmetic at the Intern. Examn.

The *Final* is open to persons who have passed or been exempted from the Intern.; the Direct Final, to persons not less than 25 yrs. of age who fulfil certain conditions as to practical experience. The subjects of the Final are: Valuations, Law of Vendor and Purchaser, Elements of Law of Receiverships and Mortgage, Arbitrations and Compulsory Purchase, Sanitation, Law and Practice of Rating and Taxation, Report Writing, and two out of a list of 7 other subjects. The Direct Final in addition to the 9 subjects of the Ordinary Final Examn. includes also the following from the Intern. list: Bookkeeping, Plans and Mensuration, and Law of Landlord and Tenant.

*Exemptions.* A candidate who has passed the Intern. Examn. for the B.Sc. (Estate Management) Univ. of London, will be exempted from Subjects 1, 2, and 4. If he has taken Agric. in his Intern. B.Sc. Examn., he will be exempted from Subject 10. If he has passed the Final of the B.Sc. Examn., he will be exempted from the Intern. and Final Examns. of the Institute entirely. The holder of any other degree of a recognized British Univ. is exempted from the Intern. entirely, but is required to take the *whole* of the Final Examn. A Candidate who holds the National Diploma in Agric. may obtain exemption from Subjects 1, 2, 4, 9, and 10 in the Intern. Examn.

Minimum age for admission to Student member grade, 16; Licentiate grade, 19; Associate grade, 21; Fellow, 25. Candidates must also fulfil specified conditions as to practical experience.

*Publications:* Regns. and Syllabus with list of Text-books and particulars of Prizes and *Scholarships* (value up to £50), 1s. Last Examn. Questions, 2s.

## THE COLLEGE OF ESTATE MANAGEMENT

Incorporated by Royal Charter. *Address*—35 Lincoln's Inn Fields, London, W.C.2.

Instruction—daytime, evening, and by postal tuition—in preparation

for the examns. of the Univ. of London (B.Sc. degree), the Surveyors, Instn., the Auctioneers' and Estate Agents' Institute, and the Land Agents' Society. Principal, B. W. Adkin, F.S.I., F.A.I., F.E.S., M.R.A.S.E., Barr.-at-Law. Directors of studies in Urban and in Rural Science and 30 other Lectrs. and Instrs. A Travelling Scholarship, maximum value £300 for 1 yr. is offered by the College, *see* Appendix XXIII., B. 3.

### THE LAND AGENTS' SOCIETY

Incorporated by Royal Charter. *Address*—12 Little College Street, London, S.W.1.

Qualifications for (1) Fellowship: Having passed the Society's examns. and being suitable in other respects (position and experience). The Council have special dispensing powers to elect as Fellows, without examn., Land Agents of exceptional standing and experience. (2) Qualified Associateship: Having passed the Society's examns. and having had at least 2 yrs.' practical experience other than as a pupil paying a premium.\* (3) Associateship: Being a Pupil with a Land Agent who is, or is qualified to be, a Fellow or Qualified Associate.

Examinations annually in March. Entries up to Dec. 1. Scottish candidates are examined in Scotland. Fee for each Part, 4 gs. Part I. comprises Agric. (Elementary), Surveying, Agr. Law (Elem.), Taxation and Charges on Land, Building Constn., etc., Forestry, Book-keeping. Part II. is of an advanced character to test practical knowledge. Candidates, 35 years of age and over, with seven years' responsible experience are permitted to sit for Part II. as a Direct Fellowship Examination. Syllabus and previous Examn. Papers may be obtained from Secretary.

*Journal*, published monthly, 2s. 6d. to non-members.

\* Agents, sub-agents, and assistants who may be eligible from the practice point of view for Fellowship and Qualified Assistantship, except that they have not passed the Society's examns., may be elected to Associateship on giving an undertaking to pass those examns. within stipulated periods.

## VII

### THE INSTITUTE OF BANKERS

Founded 1879. *Address*—5, Bishopsgate, E.C.2. Local centres in Bath, Bedford, Birmingham, Blackpool, Bournemouth, Bradford, Brighton, Bristol, Cambridge, Cardiff, Chatham, Chester, Derby, Eastbourne, Exeter, Gloucester, Hull, Ipswich, Leeds, Leicester, Liverpool, Middlesbrough, Newcastle-on-Tyne, Northampton, North Staffs., North Wales (two Centres), Norwich, Nottingham, Oxford, Peterborough, Plymouth, Reading, Sheffield, Southampton, Southend, and Swansea. Subscription  $\frac{1}{2}$  g. to 2 gs. p.a.

Qualifications for election to Associateship: (a) 10 yrs.' service in a Banking Establishment, or (b) passing approved examns., or (c) being a graduate of a University and on the staff of a Banking Establishment. Ordinary members are elected from the staff of any Banking Establishment on the Council's list. Associates by examination may add to their names or signatures, "Cert. A.I.B."

*Examinations*, open to members only, (i.) For the Associate Certificate, held in April in London, the provinces, and abroad. Latest entry date—February 15th.\* Subjects: Practice and Law of Banking, Economics, Engl. Compn., Comm. Geog., Foreign Exchange and Accountancy; optional—French, Spanish, Italian, Portuguese, German. The examn. is divided into two parts extending over not less than 2 yrs. No Member may enter for the Associate Examination unless he has either passed a Qualifying Examination or obtained exemption on account of passing one of the recognized "First Examinations" or on account of his age and length of bank service. Examns. *exempting* from Part I. in Practice and Law,—examns. for B.Com. of Bombay or Lucknow with Banking as special subject; in Econs.,—examn. by Prof. Knoop at Univ. of Sheffield. Certain certificates obtainable in London, Birmingham, Bradford, Cardiff, Hull, Leeds, Liverpool, Manchester, Scotland, and Ireland are also recognized. (ii.) For Diploma in French, Spanish, Portuguese, Italian, and German, held annually in the spring. *Scholarships* entitling holder to spend 2 months in a bank abroad are awarded in connexion with the Diploma examns.

*Classes* in preparation for the Language examns. are held by the Institute, and in preparation for all subjects by the local centres. Courses of *Lectures* in Banking and kindred subjects are given during the winter in London and some provincial towns. *Library* (lending), 7000 vols. *Journal* monthly, Oct. to June, 1s. 6d. (15s. p.a., post free). *Examn. Questions*, 6d. each yearly set.

\* For members outside Europe: January 31.

## VIII

### INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND

Founded 1877. Incorporated by Royal Charter, 1885. *Address*—30 Russell Sq., London, W.C.1. *Library*, 4500 vols. *Laboratories*, available for examns. by other institutions. *Appointments Registers* of Fellows, Associates, Registered Students, and Lab. Assts.

*Studentship*. Minimum age, 16. Annual subs., 10s. Candidates must have passed an approved examn. of matricn. standard and must be undergoing a course of preparation and training for the practice of Chemistry in a teaching institution recognized by the Council, or as a pupil of a Fellow of the Institute in a lab. or works approved by the Council.

The institutions recognized for training candidates for the Examns. of the I.C. are those connected with the Univ. of London on pp. 103 *et seq.*—(U.), (K.), (Im.), (Bk.), (Bedf.), (Roy. Holl.), (EL.) (2), (5), (8), (10) (evening), (11), (12); Armstrong Coll., Newcastle, and Durham laboratories; Constituent Colls. of Wales and of N.U.I.; all other Univs. in the U.K.; Univ. Colls., Exeter, Leicester, Nottingham and Southampton; Belfast, Dublin, Univ. Coll. (N.U.I.), Birmingham and Blackburn Munic. Tech. Schools, Bradford City Tech. Coll., Brighton Tech. Coll., Derby Tech. Coll., Hull Tech. Coll., Huddersfield Tech. Coll., Leeds Tech. Coll., Liverpool Cent. Tech. Coll., Loughborough Tech. Coll., Manchester Tech. Coll., Newcastle-on-Tyne, Rutherford Tech. Coll., Salford Royal Tech. Inst., Wigan Mining and Tech. Coll., Cardiff Tech. Coll., R. Tech. Coll. Glasgow, Heriot-Watt Coll., Edin., Paisley Tech. Coll.; Overseas Univs.—McGill, Queen's (Ontario), Toronto, Adel., Melb., Syd., W. Aust., N.Z., Cape Town, South Africa—Coll. Sc. Transvaal, Stellenbosch.

The compulsory subjects of training are Chem., Physics, Maths., and one other optional Science subject, the course in Chem. extending over 4 yrs. Evening class training is recognized if the candidate is engaged in the practice of Chem. during the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. Evidence of having passed the class or other examns. is required.

The A.I.C. examn. in General Chemistry (inorganic, organic, and physical), fee 5 gs., occupies 6 days, including 4 days of practical Chem., and is open to students who have completed the prescribed training or have obtained a degree including the necessary subjects, and worked for a further yr. in a recognized Univ. or Coll., or for 2 yrs. with a Fellow in a lab. or works approved by the Council, or have been otherwise trained to the satisfaction of the Council and been engaged in the study and practice of Chem. for 8 yrs. The A.I.C. may be granted (without examn.) to graduates with 1st or 2nd Class Hons. in Chem., or holders of diplomas recognized as equivalent, who have completed a 4 yrs.' course in the requisite subjects or a 3 yrs.' course supplemented by approved experience in laboratories or works. The Institute recognizes the Final B.Sc. with 1st or 2nd Class Hons. in Chem. of all Univs. of the U.K., of McGill, Toronto, Adelaide, Melb., Syd.; the Final M.A. of the Univ. of Cape Town with Chem. as principal subject, and the Final B.A. of Toronto with 1st or 2nd Class Hons. in the graduating Dept. of Chem. and Mineralogy. Applications from candidates having diplomas of a specialized character will be decided on their merits. Entrance fee, 2 gs. Annual subsn., 1½ gs.

The F.I.C. examn., fee 10 gs. (for Associates, 5 gs.), occupies at least 5 days in any one of the following branches: Inorganic; Physical; Organic; Bio-Chemistry; Agricultural; Foods and Drugs and Water; Industrial Chem., with special reference to particular industries. Open to Associates of 3 yrs.' standing; in exceptional cases to other candidates who have been systematically trained and have had considerable experience. The F.I.C. may in exceptional circumstances be granted without examn. to Associates of 3 yrs.'

standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability. Entrance fee, 5 gs. Annual subsn., 2 gs.

Arrangements have been made between the Board of Education and the Institute for the award of national certificates in Chem. to students in technical schs. and colls. in England and Wales (Rules 100, 1921, 2d.). The Institute in conjunction with the Board approves schemes of training submitted by the technical schs. or colls., for the award of certifs. for part-time grouped courses, including in addition to chem. suitable courses in physics, mathematics, and cognate subjects. Courses for Part-time Course certifs. are designated *Senior* for the Ordinary and *Advanced* for the Higher certif. There is a similar scheme in Scotland, in conjunction with the Scottish Education Dept., and a scheme has been arranged with the Ministry of Education, Northern Ireland. Holders of Part-time Certifs. can ascertain from the Registrar of the Institute how far their training qualifies for admission to the examn. for the Associateship.

*Pedlar Research Scholarship*, £300 for at least 1 yr. See Appendix XXIII., B. 5.

*Publications.* *Register of Members; Regns. for Admission; Examn. Papers*, 1s. a set; *List of Official Chemical Appointments*, 6th edition, 1927, 5s. net. (This includes a *List of Societies and Institutions* directly interested in the advancement of Chemical Science and Technology, with information as to their chief objects.) *Journal and Procdgs.*, 6 parts annually, 2s. each; *History of Inst.*, 21s.; *The Profession of Chemistry*, 2s. 6d.; *Lectures* (monographs on various industries—Branches of chemical practice, etc.) at various prices.

## CHEMICAL SOCIETY

*Address*—Burlington House, London, W.1. Professional qualification not required. Entrance by ballot, annual subs. £3. Monthly Journal and Abstracts. Annual Reports on the progress of Chemistry. Research Fund from which grants are made (to the amount of about £700 p.a.) for purchase of special materials for research.

## IX

### INSTITUTION OF CIVIL ENGINEERS

Established 1818. Incorporated by Royal Charter, 1828. *Address*—Great George St., Westminster, S.W.1. *Telegrams*—Institution, London.

Examinations, (i.) Preliminary and (ii.) Associate Membership, are held annually in April and Oct. in London. Entries receivable up to

Feb. 28 and Aug. 31. The April and Oct. examns. may also be held, the former in Manchester, Glasgow, Newcastle-upon-Tyne, and Dublin, the latter in the King's Dominions overseas. (i.) may also under certain conditions be held overseas.

For admission to (i.) nomination by a corporate member is necessary, and conditions as to practical training have to be fulfilled. It includes English, Maths., and one language and one science subject from the following: Elem. Chem., Elem. Mechanics, Elem. Physics, Latin, Greek, French, German, Ital., Span., Port., Dutch, Hindustani, Russian, Chinese, Japanese.

Admission to (ii.) is open to (a) *Students* of the Instn. (v. *infra*) of at least 1 yr.'s standing between ages 21 and 26, and (b) persons of at least 25 yrs. of age who have passed or are exempt from (i.) and are in other respects (training, experience, etc.) qualified for election into the Institution. It includes papers in (A) Mechanics, Strength and Elasticity of Materials, Electricity and Magnetism, *either* Theory of Structures *or* Theory of Machines; (B) 2 out of 9 other subjects; and (C) Engin. Drawings, Specifications, and Quantities.

For admission as *Student* age must be between 18 and 25, and candidate must be recommended by a corporate member under whom he is or has been in course of preparation and training in accordance with the Instn.'s prescriptions. A candidate for election as *Associate Member* must satisfy the Council as to his training and experience, and must, unless exempted, pass (i.) and (ii.). Exemption from (i.) is granted to graduates of any Univ. of the Empire, to Whitworth Scholars and, subject to provisos, to persons who have passed certain school and matriculation examns. in Great Britain and Ireland, Canada (McGill Univ.), Australia, New Zealand, and South Africa. Exemption from sections (A) and (B) of (ii.) is granted for the following degrees if taken after 3 yrs.' study in the several Univs. in accordance with their regns.: Oxford B.A. with Hons. in Eng. Sc. Final Hons. Sch.; Camb. B.A. Hons. Mech. Sc. Trip. or Ord. degree (B.A.) in Eng. provided the graduate has passed in the principal subjects, Eng. I., II., and III.; B.Sc. in Eng. (Hons. or Ord.) of Edin., St. Andrews, Aberdeen, Glas.; Civil or Mech. or Elect. Eng. or in Naval Arch. (Hons. or Ord.), Belf., S. Africa, Cape Town, and Witwatersrand in "Civil" or "Mech. and Elec."; B.A.I. of Dublin, Ord., or with Hons. in Eng.; B.E. Nat. Univ., Ireland; and, subject in some cases to certain qualifications, Eng. degrees of all the other Univs. of England and Wales, and of McGill, Adelaide, Melbourne, Queensland, Western Australia, Sydney, Tasmania, and New Zealand.

Members and Associate members are entitled to the designation *Chartered Civil Engineer*.

*Publications.* *Report on Methods of Educn. and Training of all Classes of Engrs.*, 1906, Wm. Clowes, 94 Jermyn St., S.W.1, post free, 11d.; *Report of Confce. on Educn. and Training*, June 1911; Papers and Reports on Technical Subjects.

## INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871. Incorporated by Royal Charter, 1921. *Address*—Savoy Place, Victoria Embankment, London, W.C.2. *Telegrams*—VOLTAMPERE, Phone, London.

Examinations are held in London and other centres in Great Britain, in May and November, of candidates for Graduateship. Applications should reach the Secy. not later than Apr. 1 and Oct. 1 respectively. Examns. may also be held abroad. Part I. includes Eng. essay or translation into Eng. from French, German, Italian, or Spanish; Applied Mechanics, Elec. Technology; and either Heat, Light, and Sound or Chem. Part II. consists of papers on technical subjects.

A candidate for the Associate Membership is required to possess an approved educational qualification, or to pass the grad. examn. or in approved cases to present a satisfactory thesis, paper, or other written work on Elect. Eng. or its applications. He must also be at least 26 years of age, and must be engaged in one of the branches of Elect. Eng., and satisfy the Council as to his experience, etc.

An Engineering Degree of any Univ. in the British Empire approved for the purpose is recognized, subject to certain provisos, as an approved educational qualification. Numerous diplomas in electrical engineering are likewise recognized.

*National Certificates and Diplomas* are awarded by the Institution jointly with the Board of Education or the Scottish Edn. Dept. on lines similar to those for Mech. Engineers; v. *infra*.

## INSTITUTION OF MECHANICAL ENGINEERS

Established 1847. *Address*—Storey's Gate, St. James's Park, London, S.W.1. *Telegrams*—MECH. PARL., London.

Examinations are held in London and at provincial centres in April and Oct., and at overseas centres in Oct.: (i.) *Studentship Examn.* (minimum age, 16), including papers in English, Elem. Maths., Elem. Mechanics, and either Physics or Chem. (ii.) *The Associate Membership Examn.*, including—Section A: a Modern Lang., App. Maths., Physics and Chem.; Section B: Theory of Machines and Machine Design, Properties and Strength of Materials, and an optional technical subject; also Section C: The Economics of Engineering.

A candidate for election as *Graduate* must, unless exempted (*see below*), have passed Sections A and B of examn. (ii.), and have received or be receiving sufficient regular training as a mechanical engineer to fit him for employment as such. Minimum age, 21.

A candidate for election as *Associate Member* must be a practising Engineer at least 25 yrs. of age. The passing of the A.M. or equivalent examn. is indispensable up to the age of 33, and he must also have been

regularly trained as a M.E. and have had sufficient practical experience in the direction or design of Engineering work.

Examns. exempting from (i.): a degree of any Univ. in the British Empire; matriculation and School Certificate Examns. of various Univs. and other examining bodies in Gt. Britain and Ireland; certain examns. of matricn. standard held in South Africa, Australia, New Zealand, and Hong-Kong; certain other examns.

Examns. exempting from Section A and Section B of examn. (ii.): Eng. degrees of any Univ. in Gt. Britain, Ireland, British Dominions, or India, except such as may be specifically excluded; Manc. Certif. in Technology, Mech. or El. Eng.; Eng. degree of a foreign Univ. if recognized by the Council; Diploma in Eng. of Univ., King's, or City and Guilds (Engin.) Coll., London; Dipl. of City and Guilds of Lond. Inst. if taken by matricd. student; Final Dipl. in Mech. or El. E. of R.T.C., Glas., if approved Matricn. examn. passed before beginning course; R.N. examn. qualifying as Lieut. (E.); R.N. College Prof. Certif. for Constructors; Inst. C.E., Assoc. M.; Whitworth Scholps. and Exhibns. A degree in Commerce of a British Univ. exempts from Section C.

*National Certificates and Diplomas* are awarded by the Institution in conjunction with the Board of Education to students of approved Technical Schs. and Colls. (v. Board of Education, Rules 106, 1d.). Certificates are awarded in respect of part-time and Diplomas in respect of full-time grouped courses. Part-time courses are classified as *Senior* or *Advanced*, the latter aiming at reaching, within the limits of the subjects covered, the standard of University work. Full-time courses are also classified as *Senior* (for Secondary Sch. students aged 16) and *Advanced* (for Secondary Sch. students aged 17 or 18 or students who have been for 2 yrs. in regular employment with concurrent instruction at senior or advanced part-time courses). The courses must extend over at least 2 yrs. and the senior part-time course should normally extend over 3. The Certifs. and Diplomas relating to Senior and Advanced courses respectively are known as *Ordinary* and *Higher*. The *Ordinary* Certifs. and Diplomas exempt candidates from certain subjects of the Studentship Examination, and the *Higher* Certifs. and Diplomas from certain subjects of the Associate Membership examn. Special conditions apply to holders of both the *Ordinary* and *Higher* awards.

## ROYAL AERONAUTICAL SOCIETY

(with which is incorporated The Institution of Aeronautical Engineers)

Founded 1866. Address—7 Albemarle St., London, W.1.

Membership may be either technical (Students, Associates, Associate Members, Associate Fellows, Members, and Fellows) or non-technical (Companions). *Associate Fellowship* (A.F.R.Ae.S.) is reserved for those who have certain attainments in the science or practice or teaching of

aeronautics or its allied sciences and have passed the Associate Fellowship Examination or an exempting examination; *Associate Membership* (A.M.I.Ae.E.) is reserved for those who have certain attainments in the practice of aeronautics or its allied subjects or have passed the Associate Membership Examination or an exempting examination; *Membership* (M.I.Ae.E.) for those who have attained considerable eminence and are qualified as Associate Members; *Fellowship* (F.R.Ae.S.) for those who have attained to considerable eminence, and are qualified as Associate Fellows. Annual subsn. 1 g., 2 gs., 3 gs., and 4 gs., according to class. Entrance for Associates and Companions, 1 g.; for Associate Fellows and Associate Members, 2 gs.; for Fellows and Members, 3 gs. Library, including large recent acquisitions due to grant from Carnegie U.K. Trust, available to non-members through the medium of the Central Library for Students, 9 Galen Place, W.C.1. *Lectures*, regularly in winter. *Publication*: *Journal* (monthly).

## INSTITUTION OF AUTOMOBILE ENGINEERS

Incorporated 1907. *Address*—Watergate House, York Buildings, Adelphi, W.C.2.

Qualifications for (1) Ordinary Membership (M.I.A.E.): minimum age, 25; having occupied during a sufficient period a responsible position in connexion with the practice, or otherwise proved thorough knowledge of theory and practice, of Automobile Engineering; (2) Associate Membership (A.M.I.A.E.): min. age, 23; having been trained as Engineer and subsequently employed for at least 2 yrs. in practice and science of A.E. and being actually so engaged, and having proved by examn. or otherwise thorough knowledge of the theory and practice of A.E. Persons suitably qualified may also join as graduates, students, associates, or affiliates. Annual subsn. 1 g. to 4 gs. according to class. Prizes up to £25 for Papers by Graduates.

## INSTITUTION OF CHEMICAL ENGINEERS

Incorporated Dec. 21, 1922. *Address*—Abbey House, Victoria Street, London, S.W.1.

*Membership* (M.I.Chem.E.) qualifications: minimum age, 32, and satisfactory evidence of good general and scientific education, training, and experience, or of eminence as a Chemical Engineer. *Associate Membership* (A.M.I.Chem.E.): candidates not below the age of 25 who have had regular training and sufficient experience may qualify by passing a prescribed examn. Alternative qualifications are also provided for. Subscriptions of students, graduates, and corporate members range from  $\frac{1}{2}$  g. to 5 gs.

## INSTITUTION OF GAS ENGINEERS

Founded 1863. Incorporated 1902. Royal Charter 1929. *Address*—28 Grosvenor Gardens, Westminster, S.W.1. Secretary: James W. Campbell, M.Sc., A.M.I.Mech.E. *Telegrams*—Gasophaner, London.

A scheme exists for awarding grouped course Certificates, Ordinary and Higher, for success in part-time day or evening courses, on lines similar to those for National Certificates in electrical and mechanical engineering (v. *supra*). *Diplomas* in Gas Engineering and in Gas Supply are granted for success in examns. of the Institution. The *Diploma* is a qualification for admission to Membership.

## THE INSTITUTE OF MARINE ENGINEERS

Established 1889. Incorporated 1889. *Address*—85 The Minories, London, E.C.3.

Membership or Associate-Membership open to Engineers holding First or Second Class Sea-going Certificates or those holding responsible and qualifying positions and engaged in the science or practice of Engineering or Shipbuilding; Associateship, to juniors so engaged and at least 21 years of age; Graduateship, to those receiving training in such science or practice who have completed 1 yr. of such training; Student Graduateship, to those who have attended Technical classes for 1 yr., are training for such science or practice, and have passed the Institute's examn. The examn. (fee, 2s. 6d.) is held in London and the provinces in April; subjects: Theoretical Mechanics, Heat and Heat Engines, Machine Constn. and Drawing, Applied Mechanics, Maths., Eng., Elec. Engin.

Entrance fee, 10s. to 30s. and annual subsn., 5s. to £1:11:6 according to grade of membership.

Library (over 3000 vols.) and Reading Room. Lectures monthly (usually on 2nd Tuesday) during winter session. Gold Medal and other awards for Essay competitions.

*Lloyd's Register Scholarships*: Three of £100 p.a. tenable for 3 yrs. in a Univ. or Coll. (day classes), open for competition, by examn., to British subjects, aged 18-23, who are Graduates or Associates of the Inst., apprentices or junior engineers not necessarily connected with the Inst., who have served at least 2 yrs. in a commercial eng. workshop and until the time of application have been employed in eng. either ashore, afloat, or at College with a view to entering upon the business of Marine Eng. The examn. is held early in May each year in various centres to suit the residences of candidates in Gt. Britain.

## INSTITUTION OF NAVAL ARCHITECTS

Founded 1860. Incorporated by Royal Charter, 1910. *Address*—2 Adam Street, Adelphi Terrace, London, W.C.2.

Principal qualifications for Membership: minimum age, 30; having served apprenticeship in naval arch. or marine eng. and subsequently been engaged in such occupation and having held a post of primary responsibility for 7 yrs. or more. Qualifications for Associateship are similar, but minimum age is 25 and post of primary responsibility need not have been held. Age-limit for Associates, 25; Students, 18-25. Entrance fee and annual subsn., 2 gs. each, except for students, who pay subsn. 15s. p.a. and no entrance fee. Distinctive letters, M.I.N.A., etc.

*Scholarships* in naval arch. and marine eng.: number unspecified, varying in value from £75 to £150 p.a., offered for competition, open to students and apprentices in firms engaged in shipbuilding industry and Royal dockyards; two for post-grad. research in naval arch. (value £250 p.a. and £150 p.a. respectively) are awarded on recommendation of Univ. authorities.

Annual meetings, when papers are read and discussed. Summer meetings at shipbuilding centres at home or abroad.

Library, over 4000 vols., comprising principal works on shipbuilding, ancient and modern. *Transactions*, issued annually, a permanent record for over 60 yrs. of all important developments in shipbuilding and marine eng.: £3:3s. for current vol. (free to members), £3:3s. to 10s. 6d. for earlier numbers. Membership 2900, including many foreign naval architects of eminence.

NORTH-EAST COAST INSTITUTION OF ENGINEERS  
AND SHIPBUILDERS

Founded 1884. Incorporated in 1914 under Companies Acts. *Address*—Bolbec Hall, Newcastle-on-Tyne.

Qualifications for Membership, Associate Membership, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (v. *supra*). Distinctive letters, M.N.E.C.Inst., etc. All members are, by virtue of their membership, also members of the *Cleveland Scientific and Technical Institution, Middlesbrough*.

A *Scholarship* in shipbuilding, marine, mech., or elect. eng., value £100, is awarded annually on results of an examn. in Sept.

The *George Mitchell Harroway Scholarship*, value £100 p.a. for 3 yrs., which is offered for competition every 3 yrs., is also controlled by the Instn.

The *Thomas Fenwick Reed Gold Medal*, with prize of books or instruments, is offered annually for competition.

Library, over 5000 books on engineering and shipbuilding. Reading Room with 130 British, foreign, and colonial periodicals. *Transactions*, 8 Parts since 1884, 5s. each. Annual vol., 25s. Papers published also in excerpt form, usually 5s. each, with discussion, correspondence, and author's reply.

## INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

Founded 1857. Incorporated 1871. *Address*—Elmbank Crescent, Glasgow, C.2.

Qualifications for Membership, Associateship, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (*v. supra*). Distinctive letters, M.I.E.S., etc. The Institution reciprocates with the North-East Coast Institution in regard to the use of premises and attendance at meetings. It exchanges *Transactions* with 60 scientific societies and receives in exchange 73 periodicals.

## INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Founded 1873. Incorporated 1890. *Address*—84 Eccleston Square, London, S.W.1. A Constituent Institution of the Joint Engineering Council.

Qualifications for Membership (M.Inst.M. and Cy.E.): minimum age, 25; holding either a permanent chief appointment as an Engineer or Surveyor under a Municipal Corporation or other such Public Authority, or a permanent appointment as Deputy Engineer or Surveyor or the like and having passed the examn. of the Instn. or obtained equivalent Degree or Dipl., and in the case of deputies, etc., testimony of professional ability and experience justifying election.

Qualifications for Associate Membership (A.M.Inst.M. and Cy.E.): minimum age, 22; having undergone a recognized course of instruction as Civil Engineer and Surveyor and holding a position as Engineer Asst. or Resident Engineer or the like under a Public Authority; and having passed the examn. of the Instn. or satisfied the Council that he has equivalent engineering qualifications.

A candidate for election as student (age-limits 18 to 24) must be undergoing or have undergone a regular course of training as an articulated pupil to, or hold an approved appointment with, an Engineer or Surveyor to a Public Authority.

Entrance fee for Member,  $1\frac{1}{2}$  g., and Assoc. Member, £1 : 5s.; subsn., 2 gs.,  $1\frac{1}{2}$  g. Student's subsn., 1 g.

Examinations: April and Oct. Applications receivable up to Nov. 1 and May 1. Three certifs. are awarded: (a) Testamur for general proficiency in work of a local govt. engineer and surveyor; (b) certif. in Town Planning; (c) certif. in County and Highway Eng. for specialized knowledge of road and bridge eng. and highway management and administration.

Qualifications for admission to the examns.: minimum age, 21; cert. of matricn. of some Univ. in the British Empire or an examn. of similar standard approved by the Council; fees—(a) 10s. 6d. per Part (six Parts), (b) or (c)  $1\frac{1}{2}$  or 3 gs.

Inquiries about examns. in England, India, and S. Africa may be addressed to the Secretary.

*Publications*: *Journal*, fortnightly, 2 gs. p.a.; *Town Planning Conference 1913*, 10s. 6d.; Handbook containing lists of Members, Regns., etc., 5s.; and several others.

## INSTITUTION OF STRUCTURAL ENGINEERS

Founded 1908, incorporated 1909. *Address*—10 Upper Belgrave Street, London, S.W.1. *Telegrams*—Coninst, Sloane, London. Branches (7): Lancashire and Cheshire, Western Counties, Yorkshire, Midland Counties, South-Western, Eastern, and Irish.

Admission to Membership is only by examn., through the Graduate and Associate-Membership. Admission to Associateship is direct, but candidates must be Fellows either of the R.I.B.A. or Surveyors' Institution, or must be of equivalent professional standing. Distinctive initials of members, etc., M.I.Struct.E., etc.

*Publications*: *The Structural Engineer*, monthly, 1s. 2d. post free; *Yearbook*, 5s. 4d. post free; numerous books and reports on technical subjects.

## X

## THE BAR IN ENGLAND AND WALES

THE right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W.C.2) provide, *inter alia*, as follows: *Admission of Students*. The conditions include: (i.) having passed any examn. held by any Univ. in the British Dominions or any of the States in India, approved by the Council of Legal Educn., which entitles to a degree or, provided that one of the subjects in which the Student has passed is Latin, one of certain other examinations approved by the Council of Legal Education; (ii.) satisfactory evidence of good character; (iii.) declaration that the candidate is not and does not "directly or indirectly act in the capacity of a Solicitor, Attorney-at-Law . . . Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or "in any capacity similar to any of those . . . otherwise than as . . ." The Schedule of approved Prelim. examns. includes those of the standing of Oxford Responsions, Cambridge Previous, and London Matriculation. The Council may add others, and the Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement, and solicitors admitted in England are exempted from it.

*Keeping Terms*. This is done by eating dinners 6 days in each of 12 terms (members of Univs. of the U.K. 3 days). There are 4 terms in each year.

*Education and Examination*. Systematic instruction is provided under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Jurisprudence, Legal History, and Equity. Reading in the chambers of a Barrister or Pleader for the purpose of studying the practice of Law is recommended, but not compulsory. Three examns. for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections: (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Criminal Law, (4) Real Property and Conveyancing or Hindu and Mohammedan Law or Roman-Dutch Law, (5) Common Law, (6) Equity, (7) Law of Evidence and Civil Procedure, (8) General Paper on 5, 6, and 7. A student who has passed an examination in Roman Law, forming part of a qualifying examn. for a Univ. degree, may be excused the examn. in Section 1. Sections 1 to 4 (constituting Part I.) may be taken separately (fee,  $\frac{1}{2}$  g. each); 5 to 8 (the Final examn.) must be taken together (fee, 2 gs.) after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in Classes I. and II. of the Final Examination Pass List are arranged in

order of merit. A Certif. of Honour is granted to those in Class I. at the Final examn. Prizes of £50 each may be awarded for the best students (age not over 25) in Sections (2) and (3), and a Studentship of 100 gs. p.a. tenable for 3 yrs. to the best student (age not over 25) at the Final examination. The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any Terms, not exceeding 2, that may remain to be kept by him.

*Calls to the Bar.* Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called, and special concessions in regard to the keeping of terms or examns., etc., are allowed to Scottish Advocates, Irish Barristers, members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils or Advocates who have been on the Roll of Vakils or Advocates of a High Court in India for not less than 3 yrs., certain Civil Servants exercising judicial functions abroad, and to persons who, prior to admission as students, have practised as Solicitors for 5 yrs. subsequent to admission as a solicitor *in England*.

*Fees.* On admission: application, 1 g.; stamp duty, £25; lecture fee, 12 gs.; admission fees, £20 or £21. On Call: stamp duty, £50; composition for annual dues, £12; call fees, £38 (Gray's), £40 (Lincoln's), £50 (Middle or Inner Temple).

## SOLICITORS IN ENGLAND AND WALES

Examinations are held by the LAW SOCIETY, Chancery Lane, London, W.C.2. All persons, except some Colonial Solicitors, are subject to Final examn. at or near the conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs.' standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs. Act, 1877) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn.* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem. Maths., Geog. of Europe, and Hist. of England, Latin, and one or (if Algebra and Elem. Geom. are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts or Laws and persons who have passed matricn. or other corresponding examns. of any Univ. of Great Britain or Ireland or examns. exempting therefrom; to Utter Barristers in England; and to persons who have passed Oxford Responsions or Cambridge Previous Examn. or any examn. exempting therefrom, or, subject to provisos, approved School Certificate or Higher Certificate examns., or certain other examns.

*Service under Articles* (stamp duty, £80) is normally for 5 yrs. This may be reduced to 3 yrs. for graduates in Arts or Laws or Sc. of any Univ. of the U.K., English Barristers, of less than 5 yrs.' standing,

or for members of the Faculty of Advocates, Writers to the Signet and Solrs. in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland.

An *Intermediate* examn. (fee, £6), which may be taken after completing 12 months' service, is held in March, June, and Nov. Exemption from the Legal portion (but not from the Trust Accounts and Book-keeping portion) is given to those who (i.) before or after entering into Articles have passed the examn. for the B.C.L. or LL.B. at any of the Univs. of England (except Bristol) and Wales or at the Univ. of Dublin; or (ii.) before entering into Articles have taken Hons. in the Final Honour School of Jurispr. at Oxford or in the Law Tripos at Cambridge. Exemption from the whole of this examn. in consideration of circumstances connected with the war is obtainable under certain conditions (v. sec. 2 of Solrs. Act, 1918).

The *Final* examn. (fee, 10 gs.) is held in March, June, and Nov. Prints of the Questions set at this and at the Interm. are obtainable from the Law Society.

THE SOLICITORS ACT, 1922. Section 2 provides that a person articulated to a solicitor after Dec. 31, 1922, shall not be admitted to the Final Examn. unless he satisfies the Law Society that he has, during a period of 1 yr., complied with the requirements of the Society as to attendance at a Law School provided or approved by the Society. This does not apply to any person who (1) has taken a degree at any Univ. in the U.K., after passing a Final Examn. in law at such Univ.; or (2) applies to be admitted to the Law Society's Final Examn. after satisfying the requirements of Sect. 4 of the Solrs. Act, 1860. Any person may be wholly or partially exempted from attendance at a Law School if he can satisfy the Law Society that such attendance is for geographical or other reasons impracticable.

*Provided and Approved Schools.* The Society's Law School in London; the Univs. of Birmingham (in conjunction with the Birmingham Board of Legal Studies), Bristol, Cambridge, Durham (Armstrong College), Leeds, Liverpool (in conjunction with the Liverpool Board of Legal Studies), London, Manchester, Oxford, Sheffield, Wales (Univ. Colleges, Aberystwyth, Bangor, Cardiff, Swansea), Univ. College, Exeter, Univ. College, Southampton, East Midland Law School (Univ. Colleges of Nottingham and Leicester), Univ. College, Hull, and the Sussex Board of Legal Studies.

# XI

## MEDICAL AND DENTAL QUALIFICATIONS AND STUDIES

### A. MEDICAL QUALIFICATIONS

*Address of the Registrar, General Medical Council*—44 Hallam St., Portland Place, London, W.1. *Telegrams*—Genmedicum, Eusroad, London. *Addresses of Registrars of Branch Councils*—12 Queen St., Edinburgh; 35 Dawson St., Dublin.

No person is recognized by law as a duly qualified Medical Practitioner in Great Britain or Ireland whose qualification is not *registered* in the books of the *General Medical Council*. Below are lists of the qualifications so registrable—obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas, (c) in foreign countries. The document presented in evidence of any of these must show that the possessor has passed a Qualifying examn. in Medicine, Surgery, and Midwifery. For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc., in which it was obtained.

*Position of Doctors with Irish Qualifications.* Persons who obtain recognized qualifications in the Irish Free State can register there, and should do so if they desire to practise in that State. They are also entitled to registration on the Medical Register if they desire to practise elsewhere than in the Free State.

*Position of Doctors with British Qualifications in Irish Free State.* Persons on the British Medical Register can register and practise in the Irish Free State on payment of the requisite fee of £5 *plus* 1s. for stamp.

#### (a)

Royal College of Physicians, London—F., M., L., R.C.P. Lond.  
 Royal College of Surgeons of England—F., M., R.C.S. Eng.  
 Royal College of Physicians of Edinburgh—F., M., L., R.C.P. Edin.  
 Royal College of Surgeons of Edinburgh—F., L., R.C.S. Edin.  
 Royal Faculty of Physicians and Surgeons of Glasgow—F., L., R.F.P.S. Glasg.  
 Royal College of Physicians of Ireland—F., M., L., L.M., R.C.P. Irel.  
 Royal College of Surgeons in Ireland—F., L., L.M., R.C.S. Irel.  
 Apothecaries' Soc. of London—L.M.S.S.A. Lond.  
 Apothecaries' Hall, Dublin—L.A.H. Dub.  
 Each Univ. in Great Britain or Ireland—M.D. (Ox., D.M.), M.B. (Ox., B.M.), Ch.B. or B.Ch. or B.S. (Camb. B.Chir.), Ch.M. or M.Ch. or M.S. or C.M. (Camb. M.Chir.); Dub.: L.Med., L.S.

Registrable Diplomas or Certificates for proficiency in Sanitary Science, Public Health, or State Medicine which may be added to qualifications already registered but do not admit primarily to the Register : D.P.H. (R.C.P.S. Engl., R.C.P.S. Edin., and R.F.P.S. Glas., R.C.P.S. Irel., and each of the Univs. of Great Britain and Ireland, except London).

B.Sc. (P.H.) Birm.

B.Hy., D.Hy. Durh.

M.D. (S.M.) Lond.

M.H. L'pool.

B.Sc. (P.H.), D.Sc. (P.H.) Edin. ; B.Sc. (P.H.), D.Sc. (P.H.) Glas.

The period between the obtaining of an original qualification and a Diploma is not less than 2 years.

Under the Public Health Acts no appointment as Med. Officer of Health may be made in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San. Sc.

(b)

*Australia.* M.B., M.D. Syd., Adel., or Melb. ; Ch.M. Syd ; B.S., M.S. Adel ; B.S. Melb.

*Canada.* M.D. Dal. or Alberta ; C.M. Dal. ; L.M.S. Nova Scotia Provl. Med. Board, or Prince Edward Island Med. Council.

M.C.P. & S. Alta., or Manit.

As qualifications which may be added to M.C.P. & S. Manit.—M.D., C.M. Manit.

*Ceylon.* L.M.S. Ceylon Med. Coll.

*Hong-Kong.* M.B., B.S., M.D., M.S. Hong-Kong.

*India.* M.B., B.S. All.

L.M.S., M.B., B.S., M.D., M.S. Bom.

L.M.S., M.B., M.D., M.S., M.O. Calc. (if dated prior to Nov. 30, 1924, or subsequent to May 12, 1928).

M.B., C.M., M.B., B.S., M.D. Mad.

L.M.S., M.B., M.D., M.S. Panj.

M.B., B.S. Lucknow.

*Malta.* M.D. Malta.

*Newfoundland.* L.M.S. Nfld. Med. Board.

*New Zealand.* M.B., Ch.B., M.D. N.Z.

*South Africa.*

M.B., Ch.B. Cape Town.

M.B., Ch.B. S. Africa.

M.B., B.Ch. U. Witwatersrand.

*Straits Settlements.* L.M.S. Singapore Med. Coll.

(c)

Degrees of (i.) Doctor of Med. and Surg. of all the Royal Italian Univs. ; (ii.) Bachelor of Med. and Doctor of Med. of the Imperial Univs. of Japan ; and Bachelor of Med. of any Govt. or Prefectural Special Med. Coll. or of a private special Med. Coll. designated by a Minister of Educn. of the Empire of Japan.

## B. REGISTRATION OF MEDICAL STUDENTS

The Regulations, obtainable from the Registrar, 44 Hallam St., London, W.1, post free 1s., prescribe Registration of Medical Students within 15 days of the commencement of their professional studies. For this purpose they should apply in the prescribed form, obtainable from any of the Registrars (v. *supra*), submitting evidence of having— (a) attained the age of 17; (b) passed a Preliminary examn. in General Education recognized by the Council; (c) passed also an examn. in *Elementary Physics* and *Elementary Chemistry* conducted or recognized by one of the Licensing Bodies; (d) commenced Medical study at an approved Univ. or Medical School.

As regards (b) the Council recognizes no examn. which is of standard lower than that of Univ. Matricn. examns. in the faculties of Arts and Pure Science, and requires in the case of School Certificates which do not exempt from Matricn. that the examn. certificate shall bear evidence that the candidate has passed *with credit* in English, Elem. Maths., a language other than English, and an additional subject or subjects as required by the regns. of the particular examn., to be chosen from the subjoined list, viz. Hist., Geog., Physical Sc., Nat. Sc., Latin, Greek, Hebrew, French, German, or other language accepted by the Univ. for the purpose. Applicants from recognized Dominion or Colonial Univs. must produce evidence that they have passed the complete Matricn. examn. for the faculty of Arts or of Science (Pure) of the Univ. or Coll. from which they come, or an examn. accepted as equivalent thereto, and that the examn. passed is accepted by one of the Univs. of Gt. Britain or Ireland for similar purposes. Applicants from recognized Indian Univs. must produce evidence that they have passed the Matricn. examn. of the Univ. from which they come, or an examn. recognized as equivalent thereto, and, in addition, the Prelim. Sci. or Intern. examn. in Arts or Sc. of their own Univ. Applicants from Foreign Univs. should submit their credentials to the Registrar.

As regards (c), this requirement is not dispensed with in cases where *Physics* and *Chemistry* of a Matricn. standard formed part of the (b) examn., but an applicant from recognized Dominion or Colonial Univs. or Colls. is permitted to substitute for it a certificate that an examn. in *Physics* and *Chem.* (and, in addition, *Biology*, v. *infra*) equivalent in standard to the First Professional examn. in these subjects has been passed by the student. Similarly, in the case of an applicant from one of the recognized Indian Univs. the Prelim. Scientific or Intermediate examn. in Arts or Sc. of his own Univ. will suffice if these subjects are included in his Pass certificate *in addition* to the four subjects required under (b) *supra*.

As regards (d), institutions in which Medical Study may be commenced include all the Univs. and other Bodies throughout the Empire of which the *qualifications* (v. *supra*) have been recognized as entitling to registration in the U.K.

A student who has diligently attended an approved course of instruction in *Elementary Biology* at a Secondary school or other teaching

institution recognized by a Licensing Body may be admitted to the Professional examn. in this subject immediately after his registration as a student.

Not all the licensing bodies require students to be registered by the General Medical Council.

### C. DENTAL QUALIFICATIONS

Under the Dentists Act, 1921, no person who is unregistered can practise dentistry without rendering himself liable to prosecution.

The Dental Board of the United Kingdom was constituted by the Dentists Act, 1921, and is charged with the duty of dental registration. The address of the Registrar is 44 Hallam St., London, W.1. *Telegrams*—Dentiboard, Eusroad, London.

The following lists show the registrable qualifications obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas.

#### (a)

Royal College of Surgeons of England—L.D.S., R.C.S. Eng.

Royal College of Surgeons of Edinburgh—H.D.D., L.D.S., R.C.S. Edin.

Royal Faculty of Physicians and Surgeons of Glasgow—H.D.D., L.D.S., R.F.P.S. Glas.

Royal College of Surgeons in Ireland—L.D.S., R.C.S. Irel.

Univ. of Birmingham—M.D.S., B.D.S., L.D.S. U. Birm.

Univ. of Bristol—M.D.S., B.D.S., L.D.S. U. Brist.

Univ. of Durham—M.D.S., B.D.S., L.D.S. U. Durh.

Univ. of Leeds—M.Ch.D., B.Ch.D., L.D.S. U. Leeds.

Univ. of Liverpool—M.D.S., B.D.S., L.D.S. U. L'pool.

Univ. of London—B.D.S., M.S. (Dent.) U. Lond.

Victoria University of Manchester—M.D.S., B.D.S., L.D.S. V.U. Manc.

Univ. of Sheffield—M.D.S., B.D.S., L.D.S. U. Sheff.

Univ. of St. Andrews—L.D.S. U. St. And.

Univ. of Dublin—M.D.Sc., B.D.Sc., L.D.Sc. U. Dubl.

National Univ. of Ireland—M.D.S., B.D.S. N.U. Irel.

Queen's Univ. of Belfast—M.D.S., B.D.S., L.D.S. Q.U. Belf.

#### (b)

Victoria, Australia—L.D.S. Vict.

Univ. of New Zealand—B.D.S. U. N. Zealand.

Univ. of Sydney—B.D.S. U. Sydney.

Univ. of Melbourne—B.D.Sc., D.D.Sc. U. Melb.

Univ. of Witwatersrand, B.D.S., D.D.S. U. Witwatersrand.

### D. REGISTRATION OF DENTAL STUDENTS

I. Registration is carried on at the Council Office in London in the same manner as that of Med. students, and is subject to the same

regns. as regards age and Prelim. examns., but professional study may commence by pupilage with a Registered Dental Practitioner.

II. Candidates for a Diploma in Dental Surgery should produce certificates of having been engaged in professional studies for at least 4 years, including 3 years at least at a Dental school or schools recognized for professional study by one of the Licensing Bodies, and of having received for not less than 24 calendar months, or for 2000 hours, practical instruction in Dental Mechanics.

III. Two years' *bona-fide* apprenticeship with a Registered Dental Practitioner, after being registered as a Dental student, may be counted as 1 of the 4 yrs. of professional study.

IV. The necessary instruction in Dental Mechanics, or any part of it, may be taken by the Dental student either before or after his registration as a student. When he can show evidence of at least 2 yrs.' regular pupilage in Dental Mechanics to a Registered Practitioner, prior to passing the prescribed Prelim. and Sci. examns., he may be allowed to antedate by not more than 1 yr. the passing of these examns.

V. It is recommended that instruction in Dental Mechanics be taken at a recognized Dental Hospital or School. If any part of such instruction be taken by the candidate as a pupil with a Registered Dental Practitioner, the time required to be devoted to it will be at least twice the time required for the corresponding instruction taken at a Dental School.

*Schools at which Dental Study may be commenced:* Birmingham D. Hospl.; Bristol, Royal Infirmary, Genl. Hospl.; Dublin, D. Hospl. of Ireland; Dundee D. Hospl.; Edinburgh D. Hospl.; Glasgow D. Hospl.; Leeds D. Hospl.; Liverpool D. Hospl.; London, Guy's Hospl. D. School, London Hospl. D. School, Univ. Coll. Hospl. D. School, Royal D. Hospl.; Manchester D. Hospl.; Newcastle-upon-Tyne D. Hospl.; Sheffield Royal Hospl.; Roy. Coll. of Surg. in Ireland; D. Department of any Univ. of the U.K.

Not all the licensing bodies require students to be registered by the General Medical Council.

## E. RECIPROCAL RECOGNITION

All the States, Presidencies, Provinces, and Colonies in which the registrable medical qualifications specified under A (b), (c) are granted, allow practitioners with qualifications registered in the U.K. to register without further examn. There are other Colonies, *e.g.* Tasmania, which recognize British qualifications, but in which at present no qualifications are granted.

[A Report (7th edition pubd. in 1929) as to the conditions under which Med. and Dent. practitioners registered or legally qualified in their own country may practise abroad is obtainable from the Council Office, price 2s. 6d. (post free U.K. 2s. 9d., elsewhere in the Empire 3s., outside 3s. 3d.). It contains, among other matters, the designations and addresses of the officials to whom application should be made for forms and further information.]

## F. POST-GRADUATE MEDICAL STUDIES

In London, in addition to the General Hospital Medical Schools which provide to a limited extent for qualified practitioners, there are the West London Post-graduate College at the West London Hospital, Hammersmith, with a staff of 37 regular lectrs. and demrs., the North-East London Post-Graduate College at the Prince of Wales' Hospital, Tottenham, and the London School of Clinical Medicine at the Seamen's Hospital, Greenwich, as well as certain special hospitals where excellent arrangements are made for post-graduate work in particular subjects. The *Fellowship of Medicine* (1 Wimpole St., London, W.1), formed in 1918, promotes and advertises the provision of facilities for post-graduate medical study in London. In co-operation with 50 London general and special hospitals, post-graduate courses in all the special departments of medical science are arranged, as well as short intensive courses at regular intervals during the year. Information is given on post-graduate study in Great Britain and elsewhere. Regarding facilities for special research, v. *infra*.

Post-graduate courses are also provided elsewhere, notably at Manchester, Edinburgh, and Glasgow.

## ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

*Address of the Secy., Examining Board in England, 8-11 Queen Sq., London, W.C.1. Applications for admission to the Board's examns. should reach the Secy. at least 21 days beforehand. Agency for the sale of Books of Questions set in past years (9d. each)—Taylor & Francis, Red Lion Court, Fleet St., London, E.C.4*

Examns. for the Diplomas of LICENCE OF THE R.C.P. of London and MEMBER OF THE R.C.S. of England (L.R.C.P., M.R.C.S.) are held ordinarily in Jan., April, July, and Oct. Candidates must have passed a Prelim. examn. in genl. edn. recognized by the Board, and must have passed, before commencing the 5 years' curriculum of professional study, a *Pre-Medical examn. in Chemistry and Physics* conducted or recognized by the Board. After July 1930, the Pre-Medical examn. will also include the subject of Elementary Biol. Before admission to the Professional examns. (known as the *First* and *Final*) they are required to produce certificates of having pursued the prescribed courses of study and practice. The *First* Professional examn. (fee, 10 gs.) comprises: Section I., (a) Anat., including Histol. and Embryol., (b) Physiol., including Bio-Chem.; Section II., Pharmacol., and Materia Medica. A candidate who has passed an examn. in the subjects of Section I. or of either part of Section I. and of Section II. in the examn. for the degree in Medicine conducted at a Univ. recognized by the Board, will be exempted from further examn. in such subject or subjects. The subjects of the *Final* Professional Examn. are: Section I. (fee, 4 gs.), (a) Pathol., including Morbid Anat., Morbid Histol., Clinical Path., and

Bacteriol. ; Section II.—Part I. (fee, 10 gs.), Medicine, including Med. Anatomy, Forensic Med., and Public Health ; Part II. (fee, 10 gs.), Surgery, including Surg. Anat. and the use of Surg. Appliances ; Part III. (fee, 6 gs.), Midwifery and Gynæcol.

Students of recognized Univs. in England, Scotland, and Ireland, who have passed examns. for a degree in Medicine at their Univs. in the subjects of the First Professional Examn., may enter for the Final at the expiration of three years from the date of passing in Anatomy and Physiology on production of the required certificates.

Members of certain recognized Indian, Dominion, Colonial, and Foreign Univs. are admissible to the examns. under special conditions, particulars of which may be obtained on application to the Secretary. The Board also grants Diplomas in Public Health, in Psychological Med., in Ophthalmic Med. and Surg., in Tropical Med. and Hyg., and in Laryngol. and Otol. Candidates must hold a Medical qualification registrable in the U.K., or be Graduates in Medicine of a recognized Indian, a Dominion, Colonial, or Foreign Univ.

Most of the Universities in the U.K., except Oxford and Camb., admit students who have not matriculated but have satisfied the Con-joint Board requirements, to study for the L.R.C.P., M.R.C.S.

For admission to the MEMBERSHIP OF THE R.C.P. (fee, 40 gs., *less* Licence fee, if any, already paid) the minimum age is 23, and a candidate must satisfy the Censors' Board as to his moral character and conduct and pass an examn. of such nature and extent as may be determined by the Board. If he has not passed the examns. required for the licence, he must have obtained a Univ. degree of Doctor or Bachelor of Med. which is registrable by the General Medical Council of the United Kingdom. A candidate who has attained the age of 30, and can produce testimonials satisfactory to the Board, may submit published work done by himself in any branch of Medical Science or in General Literature, and be excused a part or whole of the Examn.

FELLOWS are elected annually from the ranks of the Members of at least 4 yrs.' standing. (For particulars of the Membership of the R.C.P. application must be made direct to the Secretary, Pall Mall East, London, S.W.1.)

Examns. for the FELLOWSHIP OF THE R.C.S. are held twice yearly—the 1st Prof. in June and Dec., and the 2nd Prof. in May and Nov. Fees, first examn., 8 gs., 2nd, 12 gs., admission to Fellowship (minimum age, 25), 10 gs., for those who are M.R.C.S. Eng. and 30 gs. for those who are not M.R.C.S. The *First* examn. (in Anat. and Physiol.) is open to M.R.C.S. Eng., and, on production of certain certificates involving work extending over 60 weeks, to (a) candidates who have passed the First examn., Pt. I., for the L.R.C.P. Lond. and M.R.C.S. Eng., and (b) members of Univs. recognized under the Regns. of the Board. The *Second* examn. (in Surgery, including Surg., Anat., and Path.) is open, provided they have passed the First, to (a) M.R.C.S. Eng. who have been engaged not less than 6 yrs. in the study or study and practice of the profession, and (b) persons possessing the registrable Surg. and Med. degrees of the under-mentioned Univs., who have been engaged after obtaining such degrees in the study or study and practice of the pro-

fession for 4 yrs., including 1 yr. spent in attendance upon the Surg. Practice of a recognized Hospl. or Infirmary: the Univs. of the U.K., Alberta, Dalhousie, Laval, McGill, Manitoba, Montreal, Queen's (Kingston), Toronto, Western (Ont.), Adelaide, Melbourne, Sydney, N.Z., Bombay, Calcutta, Lucknow, Madras, Panjab, Allahabad, Hong-Kong, Malta, Cape Town, South Africa, Witwatersrand, Royal Italian Univs. and Imperial Univ. of Japan.

All the above examns. are open to WOMEN, who are also eligible, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges, for the Diplomas of L.R.C.P., M.R.C.S., and F.R.C.S. (For particulars concerning the Fellowship of the R.C.S. apply to The Director of Examinations, 8/11 Queen Square, London W.C.1.)

### ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH, ROYAL COLLEGE OF SURGEONS OF EDINBURGH, AND ROYAL FACULTY OF PHYSICIANS AND SUR- GEONS OF GLASGOW

Joint examns., open alike to men and women, are held in Edinburgh (usually in Oct., Jan., and July) and in Glasgow (usually in March-April) for the DIPLOMAS IN MEDICINE, SURGERY, AND MIDWIFERY of these three bodies. Applications for admission should reach the Inspector—in Edinburgh, David Thomson, 49 George Square; in Glasgow, W. Hurst, 242 St. Vincent St.—at least one week before.

Examns. for the DIPLOMA IN PUBLIC HEALTH (fee, 12 gs. or for each Part, 6 gs.) are held early in Oct. in Edinburgh and early in March in Glasgow.

The R.C.P. Edin. may admit to examn. for its single qualification—LICENCE—any candidate on the Medical Register. Fee, 15 gs. Examns. held every month, except Sept. and Oct. Admission to MEMBERSHIP (minimum age, 24) is by election. Candidates must hold a Licence of a British or Irish Coll. of Phys. or Degree in Med. of a Univ. approved by the Council, and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction. Fee, 35 gs., or, if a L.R.C.P. Edin., 20 gs. A member of 3 yrs.' standing may be elected FELLOW. Fee, 38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols. and Research Laboratory.

For admission to the FELLOWSHIP OF THE R.C.S. Edin. candidates must pass an examn. (fee, £10, plus £40 by those who pass. £10 is remitted to Licentiatees, in consideration of the fees already paid, or for L.R.C.S. Edin., £35) in: (a) Principles and Practice of Surgery, including Surg. Anat.; (b) Clinical S.; (c) one of the following—including clinical or practical as well as written and oral tests—S. Path. and Operative S.; Ophth. S.; Aural, Nasal, and Laryng. S.; Obst. S.; Gyn.; Adv. Anat.; Dental S. Qualifications for admission to the examn. (which is now open to women): minimum age, 25 yrs.; 2 yrs.' study and practice of the profession after obtaining one of the following,

or other approved qualifications in S. : those of R.C.S. Eng., R.C.S.I., R.F.P.S. Glas. ; Surgical degrees of the Univs. of the U.K. and Canada, Adelaide, Melb., Syd., N.Z., Bom., Calc., Mad., Panj. ; L.M.S.S.A. Lond., and L.A.H. Dub. registered under the Med. Act, 1886, and such foreign qualifications as may be approved by the President's Council.

Candidates may not appear more than 3 times at the examns.

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

Examns. for the LICENCE OF THE R.F.P.S. Glasgow can be arranged at any time, except August. Fee, 15 gs. Qualifications for admission : Licence of a Coll. of Physicians of the U.K., Dominions, or Colonies, or of the Soc. of Apothecaries of London or Apothecaries' Hall, Dublin, conferred after passing their qualifying examns. ; Degree in Med. of a Univ. of the British Empire.

Examns. for the FELLOWSHIP OF THE R.F.P.S. Glasgow are held in Jan., April, July, and Oct. 14 days' notice required. Admission to the Fellowship (fee, £50, or for L.R.F.P.S., £40) is by examn. and subsequent election by ballot, or by election in virtue of high distinction in Med. Sc. or Practice of persons not under 40 yrs. of age who have been qualified for at least 10 yrs. Not more than 4 Practitioners are admitted by the latter method annually. Candidates must be proposed by 2 Fellows of the Faculty.

All examns. of the R.F.P.S. are open to women.

## ROYAL COLLEGE OF PHYSICIANS AND ROYAL COLLEGE OF SURGEONS IN IRELAND

*Address of Committee of Management of the Conjoint Board*—Royal College of Surgeons, Stephen's Green, Dublin. Registrar of the R.C.P.—6 Kildare St., Dublin.

Professional examns. for the LICENCES IN MEDICINE, SURGERY, AND MIDWIFERY are held by the Conjoint Board in spring, summer, and autumn. Candidates must comply with the requirements of the Gen. Med. Council (*v. supra*) *re* Prelim. examn. and Registration of students. The First Professional Examn. (fee, 25 gs.) comprises Anat., Physiol., and Histol. The *Second* (fee, 10 gs.) : Pathol., Materia Medica and Pharm., Therap., Forensic Med. and Public Health. The *Final* (fee, 6 gs.) : Med., including fevers, Mental Diseases and Diseases of Children ; Surg., including Operative and Ophthalmic ; Midw. and Gynæcol., Vaccination, and Diseases of New-born Children.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U.K., and also the Univ. of Cape Town and the Witwatersrand Univ., Johannesburg. Institutions recognized for certification of studies include : in Canada—the Univs. of Dalhousie, Laval, McGill, Toronto, Trinity Coll. and Vict. Coll., Tor. ; Bishops' Coll., Montreal ; R.C.P.S., Kingston ; in Australia—Univs. of Melb. and Syd., Adelaide Infirmary, Melb. Hospl., Alfred Hospl., Melb., Syd.

Hospl., Royal Prince Alfred Hospl., Sydney, Genl. Hospls. of Hobart and Launceston; in N.Z.—Dunedin Hospl.; in Cape Town—S. African Coll.; in India—Med. Colls. of Bengal and Madras; the Ceylon Med. Coll.

Candidates who have passed in any of the required subjects at examns. conducted by any Licensing Body recognized by the R.C.P. and R.C.S. may be exempted from further examn. therein.

Examns. for the LICENCES OF THE R.C.P.I. are held early in Feb., May, and Nov., and at specially appointed times. That for the *Licence in Medicine* (fee, 15 gs., or for Special examn., 20 gs.) comprises Practice of M., Clinical M., Path., Med. Jurispr., Midw., Hygiene, Therap. It is open to a Registered Med. Practitioner of the U.K. or on the Colonial or Foreign List of the Gen. Med. Council if the Coll. be satisfied as to his character, courses of study and examns. passed. The examn. for the *Licence in Midwifery* (fee, 8 gs., special, 12 gs.) is open to Registered Med. Practitioners: (a) of the U.K. who have (i.) obtained the Lic. in Med. of the College or have passed the examn. therefor, or (ii.) satisfied the College as to character and as to course of study pursued and examns. passed; (b) of 5 yrs.' standing who have so satisfied the College. Entrants under (b) are exempt from the written examn. Particulars are obtainable from the Registrar, Royal College of Physicians of Ireland, 6 Kildare Street, Dublin.

Examns. for MEMBERSHIP OF THE R.C.P.I. are held in Feb., June, and Nov., and at specially appointed times. Applications for admission should reach the Registrar by 2nd week in Dec., Apr., and Sept. Fee, 35 gs., or for L.R.C.P.I., 20 gs.; extra for Special examn., 10 gs. The examn. is open to Registered Med. Practitioners: (a) who have held for at least a year a Licence in Med. of a College of Physicians of the U.K., or a degree (B. or D.) of any Univ. in the Empire registrable by the Gen. Med. Council; or (b) who hold a foreign qualification to practise Med. and Surg. in their own country, obtained after a course of study satisfactory to the College. The testimony of a fellow or member of the Coll. or a F.R.C.P. Lond. or Edin. as to professional conduct and moral character is also required. The Dipl. of membership carries with it the Licence if this has not been already obtained. Exemption from part of the examn. may, under special circumstances, be allowed by the Court of Examiners.

For admission to the FELLOWSHIP OF THE R.C.P.I. (fee, £35; stamp duty, £25) the candidate must have been a member of the College for 1 yr. Minimum age, 27. It is open to women.

The R.C.S.I. holds examns. (fee, 5 gs.) for a LICENCE IN SURGERY at the same times as those of the Conjoint Board. They are open at the discretion of the Council to Registered Med. Practitioners who have passed through a course of study and examns. equivalent to those required by the Conjoint Board and an examn. in Arts recognized by the Gen. Med. Council. Fee for Licence, 25 gs., including 5 gs. examn. fee.

The R.C.S.I. also holds examns. for a DIPLOMA IN MIDWIFERY. Candidates must have a registrable qualification and produce certificates of attendance at Lectures, 6 months' Hospital practice and conduct of 30 labour cases. Fee, 15 gs.

The examn. for the FELLOWSHIP OF THE R.C.S.I. is in 2 parts. Fee for each, 5 gs. For admission to the Final part a candidate must be a Licentiate or Graduate in Surg. of a Univ. or licensing body recognized by the Gen. Med. Council. Minimum age, 25. Fee on admission to Fellowship, 40 gs., or for Licentiate of the College, 25 gs.

## THE SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617. *Address*—Water Lane, Queen Victoria St., London, E.C.4.

Examns. for the Diploma of Licentiate in Med., Surg., and Midw. (L.M.S.S.A.) are held in London, the Pre-Medical Examn. in Chem. and Physics and the Primary examn. (fee, 5 gs.) in *Materia Medica* and Pharm., Anat., Physiol., and Histol. in Jan., April, July, and Oct., the Final (fee, 15 gs.), monthly, except in Sept. For admission to either, certificates are required, showing in detail the course of Medical study pursued with particulars of instruction received, practice and operations performed, and offices held. The course covers 5 yrs. from the date of registration as a medical student. Exemption from the Primary subjects may be obtained by passing equivalent examns. recognized by the Society.

## THE ROYAL COLLEGE OF VETERINARY SURGEONS

*Address*—10 Red Lion Sq., London, W.C.1. *Affiliated Colleges*—Royal V. College, Camden Town, London, N.W.1; The V. School of the University, Liverpool; Royal (Dick) V. College, Summerhall, Edinburgh; The V. College, Buccleuch St., Glasgow; The V. College of Ireland, Ballsbridge, Dublin.

A candidate for the *Membership* must, after passing one out of a list (similar to that of the Gen. Med. Council, v. *supra*) of recognized Preliminary Educational examns., attend courses in one of the Affiliated Colleges during 4 yrs. as follows: 1st year (from which exemption is given under certain conditions to graduates in Arts, Sci., or Med.): Anat. of Domestic Animals; Chem. and Elem. Physics; Biol., Elem. Zool., and Botany. 2nd year: Anat. of Dom. Animals; Physiol. and Histol.; Stable Management, Shoeing, etc. 3rd year: Path., Bact., and Protozool.; Mat. Med., Tox., and Practical Pharmacy; V. Hygiene and Dietetics. 4th year: Principles and Practice of V. Med. and V. Surg. and Obst.; Meat Inspection. An examn. (fee, £5) is held at the end of each year's course.

Qualifications for *Fellowship*: 2 yrs.' practice after membership, and a thesis on results of original research followed by oral and, if deemed necessary, written and practical examns. Fee, 15 gs.

The examn. for the *Diploma in V. State Medicine* is open to holders of M.R.C.V.S. after a special course at a V. School and training under a County or Municipal V. Inspector. Fee, £5: 5s.

Matriculated students of London or Edinburgh Univ. may sit for the

Internal Degrees of B.Sc. and D.Sc. in Vet. Science. Matriculated students of the Liverpool School may take the examns. for the Degrees of B.V.Sc. and D.V.Sc. Holders of the M.R.C.V.S. may also, after taking a special post-graduate course at the Univ. of Liverpool, enter for the Dipl. in Vet. Hygiene (D.V.H.), and after a post-graduate course at the Univ. of Manchester for the Dipl. in Vet. State Medicine.

## THE ROYAL SANITARY INSTITUTE

Founded 1876. Incorporated 1888. *Address* — 90 Buckingham Palace Road, London, S.W.1. Branches in S. Africa, New Zealand, and New South Wales, and Examination Boards in all parts of the British Dominions.

The Institute is a composite body, representative of the various sciences allied to sanitation and public health, and its members (nearly 5000) include Medical men, Engineers, Architects, Municipal Officers, etc.

Qualifications for (1) Membership: evidence of attainments of standard indicated by certain of the Inst.'s own certificates, a University Degree, or Dipl. of a Med. Corporation recognized by the Council, San. Science certif. of Surveyors' Instn., Testamur of the Instn. of Munic. and County Engineers, and membership of certain other professional bodies; (2) Associateship: one of the Inst.'s certificates or other evidence of attainments of similar standard. Annual Subsn. for Members, 1½ to 2 gs.; Associates, 15s. to 1 g. Fellows are elected from Members of at least one year's standing. Authorized signatures: M.R.San.I., A.R.San.I.

Examns. held by the Institute (fee, 4 to 5 gs.): (1) Inspectors of Meat and Foods; (2) Smoke Inspectors; (3) Sanitary Sci. as applied to Buildings, etc.; (4) Health Visitors; (5) Maternity and Child Welfare Workers; (6) School Hygiene, including Elem. Physiol.; (7) Tropical Hyg. for Inspectors; (8) General Hyg. and Sanitation; (9) Food Hyg. The Institute's Certificates (Cert. R.San.I.) are recognized by Public Authorities as qualifications for appointments.

The examns. are held in London and in numerous other towns in the U.K. and in Canada, Australasia, S. Africa, Hong-Kong, West Indies, Straits Settlements, and Mauritius. Examns. for San. Inspectors are held in Bombay and Rangoon in co-operation with the Local Governments.

Courses of Lectures and Demonstrations are held in London in spring and autumn. Fees, 3 to 6 gs.

The Parkes Museum, founded 1876, became part of the Inst. in 1888. It serves as a public demonstrating school. The Inst. has a large Library, including many foreign works. Sessional meetings, about ten yearly, are held in London and other large towns.

Congresses and exhibitions have been held almost every year since 1877.

*Publications.* *Journal*, monthly, and numerous pamphlets.

## ROYAL INSTITUTE OF PUBLIC HEALTH

Founded 1886. Incorporated 1892. *Address*—37 Russell Square, London, W.C.1.

The Institute provides courses of Instruction qualifying for admission to the examinations for the Degrees and Diplomas in Public Health of all the Univs. and Medical Corporations. Fees for Laboratory Instruction: 6 months, 34 gs.; P.H. Admn., 15 gs.; Fever Hosp. Admn., 4 gs.; Special Lab. Fees., Chem. or Bact., monthly, 10 gs., 3 months, 20 gs. Courses of free lectures are also given in the Lecture Hall of the Inst. Special lectures open to Fellows, Members, and Students. Subscription, 1 g. p.a. Registration Fee, 1 g.

The Laboratories are recognized as a place of research in connexion with the Beit Memorial Fellowships. Researches and Clinical Examns. are undertaken for Public Bodies and Med. Practitioners. Culture media of all descriptions are supplied.

Reference Library containing all important P.H. Works, Govt. Reports, etc.

*Publication.* *Journal of State Medicine*, monthly, 2s.

## INSTITUTE OF HYGIENE

Founded 1903. Incorporated by Royal Charter 1929. *Address*—28 Portland Place, London, W.1.

Examns. for Certificates and Diplomas (advanced) are held at various univs. in the U.K. on the second Saturday of Jan. and of June. Subjects: General H., School H., Mothercraft and Child Welfare. Fee, 1 to 2 gs. Complete syllabus with list of Text Books, 1s. Specimen questions, 1d.

The Certificate and Diploma in General Hygiene qualify for nomination as Associate and Member (M.I.H.) respectively.

Public Lectures are regularly given throughout the year in the Lecture Hall. The Inst. has Laboratories for analytical and bacteriological investigation, and a Museum of Hygiene open to the public free throughout the year.

## XII

## THE INSTITUTION OF MINING AND METALLURGY

Founded 1892. Incorporated by Royal Charter 1915. Objects: Advancement of the Science and Practice of Mining in respect of minerals other than coal and of Metallurgy in respect of metals other than iron; and to afford a means of facilitating the acquisition and

preservation of that knowledge which pertains to the profession of a Mining Engineer and Metallurgist. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Minanmet, London."

Qualifications for Membership (M.Inst.M.M.): minimum age, 30, having been for at least 5 yrs. in full charge of important mining or metallurgical operations or in practice as a Consulting Mining Engineer or Metallurgist; if born after Dec. 31, 1894, a regular course of at least 3 yrs.' study in pure or applied science. Qualifications for Associateship (Assoc.Inst.M.M.): minimum age, 25, having been engaged in mining or metallurgical pursuits for not less than (a) 2 yrs. if a graduate of the R.S.M. or other mining college or school of equivalent standing; (b) 3 yrs., or such longer period as Council may determine, if a graduate of some other college or school; (c) 6 yrs. in other cases. The minimum age for admission as student is 18. A candidate for either Membership or Associateship must be actually practising his profession at the time, and must satisfy the Council as to his fitness for admission. The Council may elect a candidate as Member in consideration of his position and attainments in Science or Technology. Entrance fee and annual subsn. for Member, 5 gs. each; Assoc., 3 gs. Students' subsn., 1 g. (over 25—1½ g.) p.a. and no entrance fee.

General meetings for discussion of papers monthly, Oct.-May. Large Library, reading- and writing-rooms. Publications: *Bulletin*, monthly (£1:11:6 p.a.), and *Transactions* annually (£1:11:6 p. vol.); may be purchased by non-members. Gold medals, etc., are awarded by the Instn. for promoting its objects. *Secretary and Editor*: Charles McDermid.

## EMPIRE COUNCIL OF MINING AND METALLURGICAL INSTITUTIONS

At an Empire Mining and Metallurgical Congress held at the British Empire Exhibition, 1924, it was resolved to form a Council to promote intercommunication and co-operation between the constituent institutions, to create and maintain a higher standard of technical efficiency and professional status, to convene future Congresses, etc. *Secretary-General*—Charles McDermid. *Address*—Cleveland House, 225 City Road, London, E.C.1.

## INSTITUTION OF MINING ENGINEERS

Established 1889. Incorporated by Royal Charter 1915. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Instimini, Phone, London."

The Instn.'s objects and purposes are "the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits." It is a federation

of the Manchester Geol. and Mining Soc.; the Midland Counties Instn. of Engineers; the Midland Inst. of Mining Engineers; the Mining Inst. of Scotland; the North of England Inst. of Mining and Mech. E.; the North Staffs. Inst. of Min. E., and the South Staffs. and Warwickshire Inst. of Min. E. Membership is obtained by nomination through the Council of one of the Federated Institutes.

Conditions of admission to membership include: (a) regular education and training as a Min. E., and 5 yrs.' work in a responsible position in practical Mining; or (b) First-Class Certif. of Competency under Coal Mines Act, and tenure of post as Manager, Asst. Manager, Under-Manager, or Chief Surveyor; or (c) position or attainments rendering his membership desirable in the opinion of the Council. There are Hon. Members, Members, Associate Members, Associates, and Students.

*Publications.* *Transactions* (in which are included procdgs. of Federated Insts. as well as those of the Instn. itself), 77 vols. Price to non-members, 36s. each for current volumes; back volumes at varying rates. Authorized signatures: M.I.Min.E.; Assoc.M.I.Min.E., etc. *Secretary and Editor*: Charles McDermid.

## THE IRON AND STEEL INSTITUTE

Founded 1869. Incorporated by Royal Charter 1899. *Address*—28 Victoria St., London, S.W.1.

Qualifications: (1) for Membership—minimum age, 21; being practically engaged in iron or steel works or being a person of scientific attainments in metallurgy or specially interested in the applications of iron and steel. Entrance fee, 2 gs.; annual subsn., 3 gs. (if resident abroad, 2½ gs.). (2) For Associateship—maximum age, 24; being (a) Student of Metallurgy taking a course at a Univ., Univ. College, or Tech. School, or (b) pupil or apprentice in metall. or engin., or (c) employed in some practical or scientific capacity in met. or engin. works. Annual subsn., 1 g. Initials: M.I.S.I., A.I.S.I.

Meetings in May and Sept. for reading and discussion of papers. Library, reference and lending; Information Bureau; service not restricted to members.

*Carnegie Research Fund*—£20,000, interest on which is used for grants to assist metallurgists and students in conducting researches.

*Williams Prize Fund*—£3000, interest on which is applied as a money award for the best practical paper, on manufacture or treatment of iron or steel, presented in any one year.

*Publications.* *Journal* in 2 vols. annually; *Carnegie Scholarship Memoirs*, 1 vol. annually; *Iron, Steel, and Industrial Fuel*, monthly (a survey of current tech. literature).

## THE INSTITUTE OF METALS

Founded 1908. Incorporated 1910. *Address*—36 Victoria St., London, S.W.1.

Local Sections in Birmingham, Glasgow, London, Newcastle-on-Tyne, Swansea, Sheffield.

The Inst. aims at "the advancement of the non-ferrous metals industry and the associated sciences," by the co-operation of manufacturers, users and scientific investigators. It concerns itself rather with the manufacture and working of metals and alloys and with their properties and modes of treatment and testing, than with the production of metals from their ores. The leading features of its work are the holding of sessions in the spring and autumn and an annual "May lecture" given by some acknowledged master of his subject; in addition a special "Practical lecture" is given annually in the autumn by an expert non-ferrous technician.

Qualifications for Ordinary Membership (M.Inst.Met.): minimum age, 23; occupying a responsible position, being either engaged in the manufacture, working or use of non-ferrous metals and alloys, or a person of scientific, technical or literary attainments connected with or interested in the metal trades or with the application of non-ferrous metals and alloys. Limits of age for Student Members, 18-23. Entrance fee and annual subsn. for Ordinary Members, 2 gs. and 3 gs. Students, 1 g. and 1 g. Assoc. members of local sections pay a nominal subscription and do not receive the *Journal*. *Fellows* (F.Inst.Met.) are limited in number to 12. They are chosen by Council for having rendered eminent service to the Inst.

The *Journal* contains the proceedings of the meetings and abstracts and reviews of the more important current publications, British and foreign, bearing upon non-ferrous metals. Price to non-members, £3:5s. for the two annual vols. (post free).

*Library* with all the current journals of interest to those concerned with metals.

*Research* is encouraged, directed, and even undertaken by means of a series of special committees, the most important being the Corrosion Research Committee, which began its work in 1910, and after receiving substantial help from the Govt. Dept. of Scientific and Industrial Research was augmented by the addition of representatives of several Govt. Depts. and Professional Institns.

## INSTITUTION OF PETROLEUM TECHNOLOGISTS

Incorporated 1914. *Address*—Aldine House, Bedford St., Strand, London, W.C.2.

Conditions of admission:

A. *To Membership* (M.Inst.P.T.). Candidates (a) must (1) be not less than 28 years of age, (2) have received a good general and scientific education, (3) have held for at least 5 years a responsible post in petro-

leum technology, or (b) must be in the opinion of the Council fit and proper persons to belong to the institution.

B. *To Associate Membership* (A.M.Inst.P.T.). Candidates must (1) have received a good general and scientific education, (2) have had at least 2 yrs.' practical experience as petroleum technologists.

Annual subscriptions: Students 1 g., Associates 2 gs., Assoc. members 2½ gs., Members 3 gs.

*Publications.* *Journal*, bi-monthly, 7s. 6d. (free to members). *Rules*, etc., 4s. *The Petroleum Industry*, 2s. 6d. *List of Members*, 2s. 6d. *Report of Standard Methods of Testing of Petroleum and its Products*, 7s. 6d. (Revised edition 1929.)

### XIII

#### THE CHARTERED INSTITUTE OF PATENT AGENTS

Founded 1882. Incorporated by Royal Charter, 1891. *Address*—Staple Inn Buildings, London, W.C.1.

Under the Patents and Designs Acts, 1907 and 1919, it is illegal to practise as a Patent Agent without being duly registered. The Register of Patent Agents is kept by the Institute in accordance with the Board of Trade's Rules of 1920.

*Examinations* are conducted or recognized by the Inst. for (a) the Registration of P.A.'s and (b) the admission to the Inst. of Fellows, Associates, and Students. The Inst. recognizes as Preliminary examns. those of Matricn. standard.

The Inst. holds each year (i.) Intermediate (fee, 2 gs.), and (ii.) Final examns. (fee, 3 gs.), qualifying for Registration. Latest date for entry, March 7. Subjects of (i.): A. Patent Law and Practice, Designs, Trade-marks, Foreign Law, the reading of Mechanical Drawings; B. Manufactures, Science, and the preparation of Mechanical Drawings. Subjects of (ii.): A. Preparation of Specifications for British Colonial and Foreign Patents; B. Interpretation of British Specifications. A candidate for admission to (i.) must have passed one of the approved Prelim. examns. and (a) have served 3 yrs. as a pupil or technical asst. to one or more registered P.A.'s or (b) have so served for 2 yrs. and attended a 2 yrs.' course at an approved Tech. Coll. or had 2 yrs.' approved practical experience, or (c) have so served for 1 yr. and taken a Univ. degree in the U.K. or attended a 3 yrs.' course at an approved Tech. Coll. or had 3 yrs.' approved practical experience; or (d) have served in the Patent Office for 5 yrs. on the Examining Staff (Patents), or (e) be entitled to practise as a Solicitor or (Scotland) Law Agent.

Candidates for admission to (ii.) must have passed (i.) and have served as above for a period of 2 yrs. in addition to terms under (a), (b), or (c) above, as case may be, or be entitled as in (e).

Minimum age for membership of the Inst.—25. Other qualifications:

For Fellowship, (a) having ceased to be an Associate by reason of being in practice on own account as P.A. ; (b) having passed Final examn. ; (c) special dispensation in case of candidate specially approved by the Council. For Associateship (not applicable to person registered as a P.A.) ; (a) being qualified and able by reason of connexion with the Law, Science, or the Arts, to advance the objects of the Inst. ; (b) being pupil or asst. of 3 yrs.' standing of a Fellow or a Student attached to the Inst. and having passed Interim. Examn. For Foreign Membership : having been established in practice as P.A. for a sufficient time, not less than 3 yrs. in a British Dominion, Colony, or Dependency or in a Foreign Country and neither having an office nor practising in the U.K.

Minimum age for " Studentship "—18. Other qualifications : being an articled pupil of a Registered P.A. and having passed an approved Prelim. examn.

Entrance fee for Fellow, 3 gs. ; Assoc., 2 gs. ; Foreign Members, 2 gs. ; Student, 1 g. Annual subs. : Fellows, 3 gs. ; Foreign Members, 2 gs. ; other classes, 1 g. Fellows' initials : C.P.A.

## XIV

### PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

*Address*—17 Bloomsbury Sq., London, W.C.1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan., April, July, and Sept. or Oct. : the *Prelim. Sci.* examn. (fee, 6 gs.) followed by either the *Chemist and Druggist Qualifying* examn. (fee, 12 gs.), for registration under the Pharmacy Act, 1868 ; or the *Pharmaceutical Chemist Qualifying* examn. (fee, 12 gs., April and July) for registration as Pharmaceutical Chemist (Ph.C.) under the Act of 1852. No person can enter for the Prelim. Sci. examn. who is not a *Registered Apprentice or Student*, and this involves passing in four specified subjects at not more than 2 approved prelim. examns. of Matricn. standard.

The Society's *School* is recognized by the Univ. of London as a School of the Univ. in Pharmacy, and the Dean of the School is Univ. Prof. of Pharmaceutics.

## XV

## INSTITUTE OF PHYSICS

Founded 1918 by co-operation in the first instance of the PHYSICAL, the FARADAY, and the OPTICAL Societies, and incorporated under the Companies' Acts in 1920. Other participating Societies are: The ROYAL METEOROLOGICAL Society, and the BRITISH INSTITUTE OF RADIOLOGY. *Address*—1 Lowther Gardens, Exhibition Rd., London, S.W.7.

Corporate members are of two classes: *Associates* (A.Inst.P.) and *Fellows* (F.Inst.P.). Qualifications for Associateship are: (i.) the passing of an examn. held by the Inst. or a recognized equivalent examn.; and (ii.), a yr.'s approved research or manufacturing experience. The examn. may be excused to candidates with qualifications approved by the Board. A candidate for Fellowship must, in addition to his academic qualifications, have had 5 years' experience either in research or manufacture or in any position requiring a thorough knowledge of Physics. Entrance fees, 1 g. and 2 gs. Annual subsns. 1 g. and 2 gs. All classes of membership are open to women on the same terms as to men.

Student membership is open to persons over the age of 16, who have passed a recognized Prelim. examn. and are students at certain Univs. or schools or pupils of a Fellow of the Institute. Annual registration fee, 5s.

An *Appointments Register* and a *Panel of Consulting Physicists* are maintained.

A series of Lectures on "Physics in Industry" was instituted in 1922. Part I., published by Henry Frowde and Hodder & Stoughton in their "Oxford Technical Publications"; II., III., IV., and V., Oxford Univ. Press. All later lectures published by Institute. *Journal of Scientific Instruments* (in co-op. with Nat. Phys. Laboratory) (monthly, 2s. 6d., subsn. 30s. p.a., payable to Cambridge Univ. Press); free to Fellows; Associates and Students, 10s. 6d. p.a.

## XVI

## CHARTERED INSTITUTE OF SECRETARIES

OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—6 London Wall, London, E.C.2. Branches at Birmingham, Bristol, Hull, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham (for N.E.

Midlands), Bradford and Leeds (for West Yorks), Sheffield, Cardiff, Swansea, Edinburgh, Glasgow; and overseas in Canada (Montreal and Toronto), Australia (Brisbane, Melbourne, and Sydney), and South Africa (Johannesburg).

Examns. are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst. for a period of 4 yrs. (if a graduate, 3 yrs.) or obtain registration as *Student* in course of preparation for the secretarial profession.

The *Preliminary* examn. (fee, 1 g.; min. age, 16) comprises English (Grammar, Compn., Dictn.), Engl. Hist. or Geog., Elem. Maths., and one of: Latin, French, German or Spanish, or Algebra and Geometry. Approved examns. of matricn. standard exempt from the Prelim. examn.

For admission to the *Intermediate* (fee, 2 gs.) a candidate must have passed or been exempted from the Prelim. Graduates in Arts, Commerce, Law, or Sci. of recognized Univs. in the U.K., and persons who have passed the Final of the Bar Council, Law Soc., Inst. C.A., Soc. of Inc. Acctts. and Audrs., or Inst. of Bankers, are allowed a pass in the Interim. on attaining the usual standard of proficiency in any 4 of the specified examn. subjects they select approved by the Council, but must pass the Final as a whole before election to membership.

For admission to the *Final* (fee, 2 gs.; min. age, 21) a candidate must have passed the Interim. The subjects are: Econ., Sec. practice and duties, Law and practice in connexion with meetings, Book-keeping and Accts., Merc. Law, an approved foreign lang., or Banking and Exchange, and one special law subject (*e.g.* Companies or Insurance).

*Associate Membership* (A.C.I.S.) can be obtained after 6 yrs.' service with a Public Coy. or Body; *Fellowship* (F.C.I.S.), after 8 yrs.', of which 3 have been as Secy. or Asst. Secy. A Fellow may describe himself as a Chartered Secretary; so likewise may an Associate if having passed the Final Examn. he holds or has held office as a Secretary, Asst. Sec., Chief Acct., Registrar or Chief Clerk of a Company, or other body corporate.

*Publications*: *Yearbook*; *Secretarial Practice* (10s.); *Powers of Attorney* (5s.); *The Secretary* (monthly, 1s.).

## THE INCORPORATED SECRETARIES ASSOCIATION

Incorporated 1907. *Address*—21 Bedford Square, W.C.1. Branches at Manchester, Liverpool, Birmingham, Leeds, Sheffield, Nottingham, Newcastle, Bristol, Glasgow, Cardiff, Swansea, Hull, etc., and in Bombay, South Africa, British West Indies, etc.

**EXAMINATIONS.**—Candidates for the examinations of the Association, Prelim., Interim., and Final, which are held in London and other centres in June and Dec., must be registered as Students or Graduates as the case may be.

The subjects in which candidates are examined are almost identical with those of the Chartered Institute.

There are two grades of membership which are available to both men and women on equal terms: (1) Associateship, Initials: A.I.S.A.; and (2) Fellowship, Initials: F.I.S.A. Both grades are entitled to describe themselves as "Incorporated Secretary."

*Publication: The Incorporated Secretaries Journal.*

## XVII

### SURVEYORS' INSTITUTION

Founded 1868. Incorporated by Royal Charters, 1881 and 1921. Address—12 Great George St., Westminster, S.W.1.

Professional examns. (fees: Interm. or Final, 4 gs.; Direct Fellowship, 5 gs.; applications receivable in Sept.) are held in March in London, Glasgow, and Dublin, and a Prelim. examn. (fee, 1½ g.) in Jan. in the same places and Manchester.

The *Preliminary* comprises Elem. Maths., Hist., Compn., and one of: Latin, French, German, Inorg. Chem., Botany, Geol. Candidates are expected to reach the standard of the Oxford and Cambridge School Certificate examn.

Candidates are exempt from the Prelim. if they have passed an approved examn. of matricn. standard, Inst. C.E. Studentship, Prelim. of Inst. C.A., Law Soc., Auctioneers' and Estate Agents' Inst. or Sandhurst or Woolwich.

For admission to the (i.) *Intermediate* (min. age, 19), a candidate must, unless at an approved place of instruction (see below), be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus: I. chiefly Land Agency, II. chiefly Valuation, III. chiefly Building or chiefly Quantities, IV. chiefly Mining. A candidate may select any one of these subdivisions. For the (ii.) ordinary *Final* examn. the candidate must have passed the Interm. in the subdivision which he takes for the Final. The (iii.) *Direct Fellowship* examn. (min. age, 30) may be taken, without having passed (i.) or (ii.), by a candidate who has been in practice on his own account for 5 yrs. The (iv.) *Special Degree Holders* examn. may be taken, on the same conditions as to professional training as (i.), by a candidate holding a Univ. degree in subjects bearing upon the surveying profession. All candidates for (i.), unless they have passed one of the exempting examns., must have passed the Prelim. Examn. or, if over the age of 25, a special test of general education.

Candidates between the ages of 18 and 21 who have passed the Prelim. or Exempting examn. are recommended to become Students. They must be pupils or assistants of a Surveyor or be taking a full-time course approved by the Council as bearing on the profession of Surveyor,

at one of the Univs. of the U.K. or their Affiliated Colls., or one of the following: Harper Adams Agr. Coll., Newport; Univ. Coll., Southampton; Coll. of Estate Management; Midland Agr. Coll.; Seale-Hayne Agr. Coll., Newton Abbot; the School of Architecture, Regent Street Polytechnic; and, under certain conditions, the Northern Polytechnic, Holloway, N.

For election as *Professional Associate* (P.A.S.I.) a candidate must have passed (iv.) or (i.) and (ii.), and be in practice as a Surveyor on his own account or employed as an Asst. in a Surveyor's office. For the Fellowship (F.S.I.) a candidate must have passed either (i.) and (ii.) or (iii.) or (iv.), and had 5 yrs.' experience as, and still be, either a Principal or Responsible Manager in an established business or a Head of a Dept. in the office of a public body reporting direct to his Board or Council.

*Scholarships* tenable for 3 yrs. at any Univ. in Great Britain have been established by the Council to the value of £130 if held at Oxford or Cambridge, and £100 elsewhere.

## XVIII

### TEXTILE INSTITUTE

Founded 1910. Incorporated by Royal Charter 1925. *Address*—Head Office, St. Mary's Parsonage, Manchester. Branch office, 104 Newgate Street, London, E.C.1.

The Associateship (A.T.I.) implies, in addition to attainments tested by examination in connexion with recognized training institutions, a good general knowledge of textile technology, with period of approved occupation. Fellowship (F.T.I.) involves systematic study or research, subsequent to Associateship, and a further period of approved occupation.

## XIX

### TEACHERS REGISTRATION COUNCIL

Established by Act of Parliament 1907, and constituted by Orders in Council 1912 and 1926. *Address*—47 Bedford Sq., London, W.C.1.

The Conditions of Registration are: (a) a degree or other qualification approved by the Council; if obtained in respect of a technological subject the applicant must have spent 36 months, after attaining the age of 16, in the practice of the profession or industry in question, and of this period 12 mos. must have been concurrent with or subsequent to the course for the degree (or other qualification); (b) successful completion of a course, extending over at least 1 academic year or its

equivalent, of training in the principles and methods of teaching, carried on under conditions approved by the Council and accompanied by practice under supervision ; (c) experience as a teacher in educational institns. accepted for the purpose by the Council for a period varying according to circumstances, but in no case less than 1 academic year.

Condition (b) is waived in the case of a teacher who has had not less than 3 academic yrs.' experience as Recognized Teacher in Univs. and institns. of Univ. rank approved by the Council for this purpose. Until Dec. 31, 1930, condition (b) will be modified in other cases where the Council is satisfied that special circumstances have prevented the applicant from taking an approved course of training in teaching.

Registration fee : A single and final payment of £2.

## ROYAL SOCIETY OF TEACHERS

*Executive* : The Teachers Registration Council. *President* : The Rt. Hon. Lord Gorell, C.B.E., M.C. Membership is restricted to those who have satisfied the conditions of Registration, and have been admitted to the Official Register of Teachers maintained by the Council. Initials : M.R.S.T.

## EDUCATION AND TRAINING OF TEACHERS IN ENGLAND AND WALES

Courses of training for the teaching profession, recognized and aided under the Regulations of the Board of Education (Whitehall, London, S.W. 1), are provided in Training Colleges and in the Training Departments which form part of the work of all Univs. in England and of the constituent Colleges of the Univ. of Wales and the Univ. Colleges of Exeter, Nottingham, and Southampton.

A person who desires to enter a Training College as a *recognized student* or as a *private student* intending to follow a course qualifying him for recognition as a Certificated Teacher must (i.) be over the age of eighteen, or seventeen if he is commencing a four-year course which includes work for a University Degree, on the first day of the Academic year for which he is admitted to the College, or, if that day is the 1st August and the College authorities think fit, within two months thereafter ; (ii.) have passed before admission a First Examination for Secondary Schools or some approved examination of at least equivalent standard (e.g. the Matriculation Examination of any Univ. in England or Wales) ; and (iii.) satisfy the College authorities as to his character, probable suitability for the teaching profession, and health and physical capacity for teaching. A person who desires to enter as a *recognized (i.e. grant-earning) student* must also (iv.) be a British subject ordinarily resident in England or Wales, unless an exception to this rule is approved ; and (v.) sign a declaration of intention to complete the course of training and thereafter to adopt and follow the profession of teacher in an Approved school.

The principal types of courses at present recognized are : (i.) 4-year, *i.e.* 3 yrs. of study for a Univ. degree, followed by a year of professional training ; (ii.) 2-year, including a period of professional training concurrently with a period of academic study ; this course may, under special conditions for individual students, be extended for a third year or renewed for a year after three years' teaching in approved schools ; (iii.) 1-year, for graduates or Certificated Teachers who have not previously been trained at Training Colleges.

As regards (i.), a student may be admitted to the 2nd, 3rd, or 4th year if he has completed 1 yr., 2 yrs., or the whole of the course for a degree before entering the Training Department. He will not as a rule be certificated as a Teacher unless he has passed a Final examination for a degree.

As regards (ii.), suitable Univ. examinations forming recognized stages in courses for degrees may, for the present and subject to certain conditions, be approved for individual students as alternative final examinations in academic subjects.

A course of training extending over not less than 1 yr. at a Secondary School and providing for a systematic study of the principles and practice of teaching may be approved for a person who has obtained a Univ. degree, and a grant may be paid by the Board to the Governing Body of the School.

Teachers with at least 5 years' teaching experience are eligible for Studentships : " Full-time Studentships " are grants at a rate not exceeding £100 for an academic year for full-time courses of advanced study or research either at Univs. or other institutions ; these are intended for teachers who are able to obtain a term or longer period of grace from school teaching for the purpose, but not for the whole or part of an ordinary degree course.

The *College of Preceptors*, Bloomsbury Square, London, W.C.1, grants the following Diplomas to teachers : (1) A.C.P., (2) L.C.P., (3) F.C.P. The examns. for A.C.P. are divided into Part I. non-professional subjects, and Part II. the professional examn., including a practical test of ability to teach. The standard in each subject of Part I. is that of the London Univ. Intermediate Arts examn. The L.C.P. examn. is open to University graduates and holders of the A.C.P. Diploma. Candidates must submit evidence of 2 years' professional experience for A.C.P. and 3 years' experience for L.C.P. The F.C.P. Diploma is granted to candidates who, having already obtained the L.C.P. Diploma, submit a satisfactory thesis on some original research or experimental work in Education.

The *College of Handicraft* (Hon. Registrar, J. Lloyd, A.C.P., F.Coll.H., 124 Belgrave Road, London, S.W.1), a constituent part of the Institute of Handicraft Teachers, incorporated in 1924, grants certificates of competency as Teachers of Handicraft to members of the Institute who satisfy the Bd. of Examiners of the Coll. The standard of examn. is stated to be that of a University Diploma in Education, and the examns. are held in Jan. of each year. A necessary qualification is recognition by the Board of Education as qualified teacher. A Summer School and a Correspondence Course of Study form part of the College

activities, and prizes are awarded for research into the problems of Practical Education. Initials: M.Coll.H., etc. Academical dress may be worn by Members and Fellows.

### INTERCHANGE OF TEACHERS

The Interchange of teachers between different parts of the Empire and mutual recognition of certificates and service were among the subjects considered at the Imperial Education Conference held in London at the Board of Education in July 1923, and a report was prepared by a committee of the Conference on:—I. Interchange; II. Recognition of (a) service given elsewhere than in the country of origin—for the purposes of superannuation, (b) previous service—for calculation of salary in case of teachers who migrate; III. Recognition of teachers' certificates throughout the Empire. The Teachers Superannuation Act of 1925 makes it possible for a teacher to leave service in a grant-aided school in England, and to serve for not more than 4 yrs. in the Dominions overseas without forfeiture of pension rights, provided 10 per cent. of the salary last received in England is paid by the teacher for the period of overseas service.

The *League of the Empire*, 124 Belgrave Rd., London, S.W.1, promotes the interchange of teachers between the Mother Country and the Dominions on the lines laid down above. The London County Council authorize the exchange of 50 teachers annually, and a number of local authorities in Great Britain also co-operate. Canadian, Australian, South African, and New Zealand Education Departments have reciprocated. A triennial Conference on Imperial Education is held by the League. The meeting in 1928 included a delegation of distinguished French educationalists. An article on the *Interchange of Teachers Scheme* was printed by the Board of Education in their Report for the year 1925-26. The League has appealed for funds for establishing a "Home Centre" in London, where teachers from any part of the Empire may find housing accommodation and which should act as a good publicity centre for imperial affairs. Hon. Sec., Mrs. Ord Marshall, C.B.E. Hon. Treasurer, Lord Askwith, K.C.B.

The *Overseas Education League* (Office of Hon. Organizer, Boyd Building, Winnipeg, Canada) under the auspices of the Govts. of the Dominion of Canada, Newfoundland, New Zealand, and the Depts. of Education of Alberta, B.C., Manitoba, N.S., N.B., Ont., P.E.I., Que., Sask., undertakes the organization of official visits of teachers to Gt. Britain and other parts of the Empire, and interchange of teachers and school inspectors within the Empire. Tours for Canadian Univ. undergraduates to Gt. Britain and Europe are also arranged by the League. In 1925, for the first time, a party of British secondary teachers and others visited Canada from coast to coast under its auspices.

The *Fellowship of the Maple Leaf* for the supply of British teachers for the Dominions is interested primarily in Elementary Schools, but also places teachers in Private Schools, High Schools, and Universities. Office—13 Victoria St., Westminster, S.W.1.

## GENERAL

*Association of Scientific Workers.* Founded 1918. Address—25 Victoria Street, London, S.W.1. Aims at bringing together into one professional organization all qualified scientific workers, viz.: those engaged in (a) University and other Higher Educational Institutions and State-aided Research Institutions, (b) Industry and Consultative Practice, (c) State and Municipal Scientific Departments. Yearly subscription, ros. min. Official journal, published 6 times a year, *The Scientific Worker*. President, Prof. J. S. Huxley, M.A.; Genl. Secy., A. G. Church, D.S.O., B.Sc., M.P.

*Professional Openings in the King's Dominions Overseas*

Information on this subject is available in the *Professional Handbook* issued by the Oversea Settlement Department, Caxton House, Tothill St., London, S.W.1, in 7 Parts: I. Barristers and Solicitors, Notaries Public (price 6d.); II. Chemists and Druggists, Dentists, Nurses; III. Dentists, Physicians and Surgeons, Veterinary Surgeons; IV. Civil Service, Clerks, Stenographers, Typists and Accountants, Commercial Travellers; V. Teachers and Governesses; VI. Architects and Engineers; VII. Auctioneers, Surveyors, Police. Price of each Part, 4d.

## XX

# MATRICULATION EXAMINATIONS IN GREAT BRITAIN AND IRELAND AND EXEMPTION THEREFROM. (SEE ALSO APPENDIX XXI.)

## EXEMPTING EXAMINATIONS INDICATED BY A NUMBER IN THIS APPENDIX

1. Oxford Responsions;
2. Cambridge Previous;
3. London Matriculation;
4. Durham Matriculation;
5. Wales Matriculation;
6. Joint Board of Northern English Univs. (Manc., Liv., Leeds, Sheff., Birm.) Matricn.;
7. The same Board's School Certificate;
8. Oxford and Cambridge Schools Examn. Board's (a) Higher, (b) School;
9. Oxford School Certificate (Senior Local);
10. Cambridge School Certificate (Senior Local);
11. Bristol School Certificate;

12. Durham School Certificate ;
13. London General School ;
14. Central Welsh Board's (a) School or (b) Higher Certificate ;
15. Scottish Educn. Dept. Leaving Certif. ;

[The *School* and *Higher School* Examinations and Certificates referred to in this Appendix are described on p. 4]

(a) BIRMINGHAM, LEEDS, LIVERPOOL, MANCHESTER, AND SHEFFIELD

The Matriculation Examn. held at each of these Univs. in July and Sept. (fee, £2) is conducted by a *Joint Board*. *Address* of the Secy. (J. M. Crofts), 315 Oxford Rd., Manchester. Candidates are required to satisfy the examiners at one and the same examn. in English Composition, in 5 subjects chosen as follows, and in the examn. as a whole : I. either English Literature or History ; II. either Maths. or Latin ; III. three other subjects, not already taken under I. and II., chosen from : 1. Engl. Lit., 2. Hist., 3. Geog., 4. either Music or Art, 5. Greek, 6. Latin, 7. French, 8. German, 9. some other Approved Language, 10. Maths., 11. Mechanics, 12. Physics, 13. Chem., 14. Physics-with-Chemistry, 15. Natural Hist., 16. Botany ; provided that candidates who take Maths. under II. must include one of subjects 5-9, and those who take Latin under II. must include one of 10-16. A paper on " Experimental Science in its relation to Agricultural Life " may be taken along with 16 but not with 12, 13, or 14. Candidates who take the Mechanics portion of the Physics paper may not take Mechanics as a separate subject. Physics-with-Chem. may not be taken by candidates who take *either* Physics *or* Chem. *or* Mechanics *or* Agric. Science. Agric. Science may not be taken by candidates who take *either* Physics *or* Chem. *or* Physics-with-Chem. Application to present any other language must be made and the fee (incl. any special fee for this language) paid on or before March 1. The several Univs. impose special conditions for entrance to certain Faculties.

*Exempting Examns.* Those numbered 1 and 2, London Intermediate examn., Intermediate examn. in Arts, Sc., or Med. of an approved Indian Univ., Final Examn. of Law Society (in case of Barrister or Solicitor entering Faculty of Law), Special Army Education Certificate at Advanced Standard ; also, subject to provisos, Nos. 3, 7, 8 (b), 9, 10, 11, 12, 13, 14, 15, and at the Board's discretion other examns. of equal or higher standard. The *Palestine Matriculation Certificate*, see App. XXI. A degree conferred by an approved Univ. after examination also entitles to exemption. See App. XXI.

*Trained Certificated Teachers* may obtain exemption under certain conditions.

A *Special Examination* for candidates of mature years (not under 23 on May 1 of year of application) is held. Applications (with fee, £2, and birth certif.) will be received up to May 1.

A *Special Examination* is held for candidates not below 19 yrs. of age, who have been engaged in industry for at least 3 yrs. since leaving school, and have as students attended satisfactory day or evening courses for at least 3 yrs. English (or History) and a foreign language are compulsory subjects. Date, July. Fee, £2.

*Special Regulations for Entrance to Faculties*

**BIRMINGHAM.** Candidates entering the *Arts* faculty, except those taking a degree in Music, must have passed in Latin (or Greek) and a Modern language. Candidates for the LL.B. must have passed in Latin and a modern language. Those taking B.Sc. in *Pure Science* are recommended to take both French and German in Matricn. examn. Candidates entering the *Medical* faculty are required to pass in English, Maths., and a language other than English.

**LEEDS.** For admission to courses for the B.A. a Latin qualification is required. *Medical* and *Dental* students are ordinarily required to have passed in Maths. at the Matriculation Examn.

**LIVERPOOL.** Candidates for the B.A. are required to have passed in Latin or Greek at matricn. standard. *Engineering* students are recommended to pass in Mathematics (with the paper in Additional Maths.) and one or two of: Mechanics, Physics, Chemistry. *Medical* and *Dental* students must have passed in Maths.

**MANCHESTER.** Students intending to enter upon any of the following degree courses must have passed the Matriculation examn. in the subjects named or give evidence of having attained an equivalent standard. 1. Hons. Schools in Arts (save Archit., Econ., Philos., and Geog.); *Latin* (or in certain cases *Greek*), unless prepared to devote 4 yrs. to the course. 2. Science; *Maths. and Mechanics*. 3. Law; *Latin*. 4. Medicine; *Latin, Maths. and Mechanics*. 5. Technology; *Maths.*

**SHEFFIELD.** Candidates for the B.A. with Honours (other than in Maths., Econ., Geog. or Archit.) or for the B.A. ordinary degree must pass the Intermediate Examn. in Latin or Greek, and no language course for the Intermediate Examn. may be entered upon without proof of an adequate elementary knowledge of the language. *Law* students must have qualified in Latin. *Engineering* students should present Maths. and include Mechanics or Physics or Chemistry.

## (b) BRISTOL

The University recognizes as qualifying for Matriculation: 1. *Graduation* in a Univ. in the United Kingdom or some other approved Univ. 2. *Higher school certificate*. 3. (i.) *School certificate* with credit in five subjects taken at one and the same time, which must comprise (1) *either* English or History; (2) *either* Mathematics or Latin or Greek; (3) three other subjects not already taken under (1) and (2), which must be selected in accordance with regulations. A credit in Religious Knowledge or in Music or in Art is accepted. (ii.) *School certificate* if the Senate is satisfied that such proficiency has been shown in a particular group of subjects as to qualify for curriculum for degree. 4. *Scottish* Education Department's *Leaving Certificate*. 5. Special Army Education Certificate. 6. Trained certificated *teacher's* qualifications, under certain conditions. 7. *Matriculation* examn. of any univ. of the United Kingdom if completed at one time. 8. Sufficient qualification for original

*research* in case of candidate for research degree. 9. In exceptional circumstances sufficient education and attainments in case of candidate over 23 years of age.

(c) CAMBRIDGE

The *Previous Examination* comprises : I. (a) Latin, (b) Greek, (c) French, (d) German, (e) Italian, (f) Spanish ; II. (a) Maths. (elementary), (b) Maths. (less elementary), (c) Experimental Physics and/or Chemistry ; III. (a) English essay and précis writing, (b) Holy Scripture (a Gospel or the Acts of the Apostles), (c) English History.

Candidates must pass in at least two of the languages in Part I., including (a) or (b), in II. (a) and either II. (b) or II. (c), and in III. (a) and either III. (b) or III. (c). The parts may be taken separately.

Natives of Asia or Africa, not being of European descent, may offer English literature in lieu of one of the languages [other than (a)] in Part I., and Arabic, Chinese, Sanskrit, or Pali, in lieu of I. (a).

*Exemption*, complete or partial, is obtainable under certain conditions by means of *School Certificates*, *Matriculation Certificates*, etc. (see below); *Higher (School) Certificates*; *Certificates of Graduation* at any Univ. in Great Britain, except Reading; *Certificates of the Navy, Army, and Air Force Entrance Examn.* and the *Dartmouth Passing Out Examn.*; certain *Indian, U.S.A., Egyptian, Palestinian*, and other *Foreign Certificates* (see Appendix XXI.).

*Matriculation Certificates*, etc. *Certificates of approved examns.* (see below) give exemption from the whole *Previous Examn.*, for passes in Latin or Greek, in a subject of Schedule A (see below), in English, and in a fourth subject; from all but Latin or Greek, for passes in a language other than English or Latin or Greek, in a subject of Schedule A, in English, and in a fourth subject; from Part I., for passes in Latin or Greek, and in a second language other than English; from Part II., for a pass in a subject of Schedule A.; from Part III., for a pass in English.

Schedule A comprises Maths., Elem. Maths., Higher Maths., Mechanics, Physics, Chem., Physics-and-Chemistry, Gen. Sci., Biol., Bot., Zool., and Nat. History.

The approved examns. and certificates are Oxford Responsions; the *Matriculation Examns.* of T.C.D., Belfast, Durham, N.U.I., London, Wales, Birmingham, Leeds, Liverpool, Manchester, Sheffield; *Preliminary Examn.* of the Scottish Univs.; Northern Ireland Senior Certificates; *Matrn. Examns.* of Univs. of Dalhousie, McGill, Manitoba, New Brunswick, New Zealand, Queensland, Saskatchewan, Sydney, Toronto, and the S. African Univs.; examns. normally recognized for purposes of *matrn.* by the Univs. of Adelaide, Alberta, British Columbia, Melbourne, Queen's (Kingston), Ontario, Tasmania, W. Ontario; and examns., subsequent to *matrn.*, held by any of the above-mentioned Univs.

*School Certificates* of bodies approved by the Board of Education give similar exemption to the above, and certain additional exemptions; but the standard for exemption by a *School Certificate* is a pass *with credit*.

Exemption is also given to *Commissioned Officers* of H. M. Forces who

are resident in Cambridge under the orders of the Naval, Military, or Air Force Authorities.

(d) DURHAM

A Matriculation Examn. is held for admission to the *Durham Colleges* only. The subjects are (a) Modern History or English, (b) Mathematics, (c) Chemistry, (d) Physics, (e) Logic, (f) Additional Mathematics, (g) Latin or Greek, (h) French or German, (j) Italian, (k) Spanish, (l) Geography, (m) Botany, (n) Religious Knowledge, including Greek Testament, (o) Ancient History. Students in Arts or Theology must take 5 subjects, including (a), (g), and one of (b), (c), (d), (e); in Science—5 subjects, including (a) and (b), either (c) or (d), a foreign language, ancient or modern, and one selected from a list; in Music—any 4 of the above named or a foreign language and 2 other subjects.

The following are recognized for *exemption* from this examn.: (i.) *graduation* in any Univ. in the United Kingdom or other Univ. recognized by the Matriculation Board; (ii.) subject to certain conditions, *Higher School certificate*, *School certificate* with credit in not less than 5 subjects [other than Religious Knowledge and subjects in Group D], Matriculation examn. of any Univ. in Great Britain or Trinity College, Dublin, Oxford Responsions, Cambridge Previous; (iii.) Scottish Leaving Certificate, higher or honours grade; (iv.) Army Special Certificate; (v.) Irish Free State Leaving Certificate; (vi.) Intermediate of Indian Univs.; (vii.) Newfoundland Certif. of Jnr. Associated Grade of the Council of Higher Education.

For matriculation in the *College of Medicine* the following are recognized: I. (i.) graduation in Arts or Science in a Univ. of the British Empire; (ii.) certain of the School (with credit) and Higher School certificates, the Scottish Leaving Certificate, and Matriculation examns. of Univs. in Great Britain and Ireland, provided the candidate passed in English, Elementary Maths., Greek or Latin (Oriental Students—Sanskrit), French or German, or other approved modern foreign language, and one other subject from a list of 15.

For admission to *Armstrong College* the following are recognized subject to specified conditions as to required subjects (the candidate must have passed in either 5 at one examn. or 4 at one and 2 at a subsequent examn.): certain of the School (with credit) or Higher School certificates, the Scottish Leaving Certificate, and Matriculation examns. of Univs. in England. The required subjects are English, Elementary Mathematics, one of Latin or Greek or French or German, and 2 other subjects (or 3 when the candidate passed in only 4 required subjects at one examn.) from a list of 19.

Candidates of *more than 23 years of age* whose native language is English may be admitted on producing satisfactory evidence of educational attainments.

In special circumstances a special entrance examination may be taken by candidates who have been *engaged in technical pursuits* for 2 years approximately, and propose to study Engineering, Naval Architecture, Mining, Metallurgy, or Agriculture. The subjects of the

Examn. (held in Sept.) are: English, a modern foreign language, Elem. Maths., two other selected subjects.

In special circumstances not provided for above, candidates may apply for exemption from ordinary requirements.

#### (e) LONDON

The University conducts 3 examns. qualifying for matricn.: (1) the ordinary Matricn. Examn., (2) the General School Examn., (3) the Special Univ. Entrance Examn. As regards (2) and (3), *see* pp. 108 and 678. To pass (1), a candidate must at one and the same examn. satisfy the examiners in English, Elementary Maths., and 3 of the following: (a) Latin, (b) Greek, (c) Botany, (d) Chem., (e) Heat, Light, and Sound, (f) Mech., (g) Elect. and Magnetism, (h) French, (j) German, (k) Italian, (l) Russian, (m) Spanish, (n) another approved language, (o) History—Roman, or Greek, or English, or European, or of the British Empire, (p) Geog., (q) Logic, (r) Drawing—geometrical and mechanical, (s) Maths.—more advanced, (t) Zool., (u) Geol., (v) Music—theory, (w) Economics. One of the 7 subjects (a) to (g) must be included, and one of the subjects offered must be a language other than English. Candidates may present two special oriental languages under certain conditions. At the Intermediate Examn. in Arts it is compulsory to offer (a) or (b), whether taken at the Matricn. examn. or not. Law students are advised to offer (a) and English History at their Matricn. Examn. Candidates should obtain Regulations from External Registrar, University of London.

*Exemption* may be obtained by (1) graduates of approved Univs. and persons who have passed all examns. required for a degree in those Univs.; (2) subject to certain conditions, among them the passing with credit in five subjects at one and the same examn., persons who have passed the examns. numbered 7, 8 (b), 9, 10, 11, 12, 13, 14 (a); (3) subject to other conditions persons who have passed examns. 2, 6, 8 (a), 15; (4) holders of certain Overseas Certs. *See* Appendix XXI.

#### (f) OXFORD

*Responsions* comprises: I. (a) Latin, (b) Greek; II. (a) English, (b) French, (c) German, (d) Italian, (e) Spanish; III. (a) Maths., (b) Natural Science. To pass, a candidate must have satisfied the examiners *either* in both subjects from Group I. and in both subjects from Group III., *or* in at least one from each group and in 4 subjects in all; he must also have passed in 2 languages other than English, and either have passed in all 4 subjects at one examn. (in which case special merit in one or more subjects may compensate for comparative weakness in any one) or in 3 at one examn. and in a fourth at a subsequent examn.

*Exemption* may be obtained: A. by persons accepted for admission as *Service Students* or *Imperial Forest Service Students* or *Special Students* or *affiliated* Colonial, Indian, or Foreign Senior or Junior Students, or as candidates for the Degree of B.C.L. under certain conditions, or as *Advanced Students*, or as candidates for the Degree of B.Litt. or of B.Sc., or who hold a degree at another Univ., such degree

and such Univ. having been approved by the Hebdomadal Council, or as *students of mature years* recommended by the Delegates for Extra-mural Studies under certain conditions.

B. subject, *inter alia*, to passing in 2 languages other than English, of which either Latin or Greek shall be one, persons who have passed a School or Higher School Certificate Examn. (7, 8, or 13) or gained a class in the Final Senior Freshman Examn. of Dublin or a Scottish Preliminary Examn. Certificate, or passed any of the examns. numbered 2, 3, 4, 5, 6, 15, or the Northern Ireland Senior Certificate, or the Intermediate Arts or higher examn. of Birmingham, Durham, Leeds, Liverpool, London, Manchester, Sheffield, or Bristol.

### (g) READING

*Matriculation*, minimum age 17, is open to (a) graduates of Univs. in the United Kingdom or other approved Univs. ; (b) persons who have passed or obtained exemption from the matriculation examn. of the Univ. of London or of the Joint Board (*v. supra*), or have satisfied the conditions for such exemption ; (c) persons who, being at least 25 years of age, have passed a special examination held by the Univ. "for approved candidates of mature years." In exceptional circumstances the Senate may accept other evidence of previous education and attainments.

### (h) WALES

The Matriculation Examn., the passing of which is a condition of matriculation for students of the constituent Colleges who have not passed an equivalent examn., is held at each of these Colleges about the end of Jan. and the end of June each year. The subjects are (a) English, (b) Latin, (c) Greek, (d) Welsh, (e) French, German, other approved languages, (f) History, (g) Music, (h) Maths., (j) Mechanics, (k) Physics, (l) Chem., (m) Bot., (n) Biol., (o) Geog., (p) Geol., (q) General Sci. A candidate must pass at one and the same examn. in 5 subjects, including (a), one of (b), (c), (h), at least one language [and not more than two unless both (b) and (c) are offered] in addition to English, and either (h) or one of (j) to (q). No candidate may offer both (j) and (h) or both (m) and (n), or both (o) and (p), or both (q) and one of (j) to (p).

*Examinations recognized as equivalent* subject for subject : (a) The Matricn. examns. of London, of the Northern English Univs. Joint Board, or of Dublin, or the Preliminary Examn. of the Scottish Joint Board ; (b) School Certificate Examns. (except Durham's), the Leaving Certificate (Higher Grade) of the Scottish Education Dept., the Senior Certificate of the Ministry of Education for Northern Ireland, and the Leaving Certificate of the Intermediate Education Commissioners of the Irish Free State (with credit at one and the same examn. in each of the subjects required by the Welsh matricn. regulations). A pass in a "First Examn." in Music gained before 1925 will not count for exemption, nor will other passes before July 1, 1924, except in accordance with conditions for exemption then in force.

Candidates of 23 or more years of age may be exempted on the special recommendation of a constituent College.

## (i) SCOTTISH UNIVERSITIES

*Qualifications for admission to degree courses in Scottish Universities.*

I. Scottish Education Dept.'s Group Leaving Certificate showing passes (including at least two on the Higher Standard) in at least 4 of the following subjects: (i.) English (including Literature and History); (ii.) Maths., Dynamics, Physical Sci.; (iii.) Latin, Greek, French, German, Italian, Spanish, Gaelic; (iv.) Nat. Sci., Art, Music, Applied Sci. Provided (a) the passes must include one from each of the groups ii. and iii.; (b) unless they include three on the higher standard the Certificate must show either (1) passes in Latin (or Greek) and in Maths., or (2) a pass on the Higher Standard in Latin (or Greek) or in Maths., and all the four passes must be in subjects taken from groups (i.), (ii.), and (iii.).

II. Other certificates affording evidence of a satisfactory secondary education on lines above specified.

III. Examination under the Entrance Board in 4 subjects selected from the following, including at least one from each group: (i.) as under Clause I.; (ii.) Maths., Physical Sci.; (iii.) as under Clause I., or other approved language. Proviso (b) applies, and candidates are ordinarily required to reach the higher standard in English. The only subjects in this examination in which lower standard passes can be obtained are Latin, Greek, and Maths.

Examinations recognized in the case of applicants from outside Scotland: (a) Oxford Responsions; (b) Cambridge Previous; (c) any School or Local Examns. conducted under the auspices of the Univ. of Oxford or Cambridge which are accepted as exempting from (a) or (b) respectively; (d) London matriculation examn. A candidate who has been educated chiefly in England, or Wales, or Ireland, and who has such qualifications as would admit him to a Faculty in a Univ. in one of those countries, will be exempted from the Preliminary examn. Special application for partial exemption may be applied for where the conditions for complete exemption have not been fulfilled. *See also* Appendix XXI.

## (j) BELFAST

The Matriculation Examn. comprises English, Mathematics, and 3 of the following: (a) Greek, (b) Latin, (c) French, (d) German, (e) Italian, (f) Spanish, (g) Modern History, (h) Physics or Mechanics, (j) Geog., (k) Chem., (l) Bot., (m) for Faculties of Arts, Commerce, Applied Science, and Technology—Celtic, (n) for Science, Medicine, or Applied Science or Technology—Mechanical Drawing; for Commerce—(o) Elementary Economics, and (p) Accounting; for Faculty of Arts (q) Music. For Arts, Science, or Medicine one language other than English must be taken; for Commerce—French or German or Spanish; for Applied Science or Technology—one of the languages (a)-(f).; for Faculty of Law—Latin. Candidates for Faculty of Arts may, under certain conditions, take Latin or Greek instead of Maths.

For Engineering students there is a special Matricn. Examn. com-

prising English, Maths., Further Maths., Greek or Latin or French or German or Italian or Spanish, Physics or Chem., Mod. Hist. or Geography.

A candidate who has passed in at least 3 subjects, but failed to pass the examn. as a whole, is allowed to complete his matricn. at the next subsequent examn.

For *exemption* the Univ. recognizes: 1. graduation in a British Univ.; 2. the Final Junior Freshman Examn. of Dublin, provided the candidate has passed in the subjects required by Belfast and, in the case of medical students, the subjects required by the G.M.C.; 3. for entry to any faculty the candidate would have been entitled to enter in the Univ. whose examn. he has passed—the examns. numbered 1, 2 (Parts I. and II.), 3, 5, 6, 13, or the examn. of the Scottish Univs.' Entrance Board; 4. subject for subject—the examns. 8 (a), 8 (b) (with credit at one and the same examn. in all subjects), 9, 10, 11, 15 (Higher or Honours), and certain others.

*Students of mature age* (not less than 23) may be admitted without passing the ordinary Matricn. Examn. Applications are dealt with by a special committee of the Academic Council, who may submit such candidates to such tests of their fitness to profit by the courses of the Univ. as they may consider necessary in each case.

#### (k) DUBLIN

The Matriculation Examn. in Arts, held five times a year, comprises English Composition, Mathematics, English History, Modern Geography, Latin, and one of: Greek, French, German, Italian, Spanish, Irish.

The Matriculation Examn. in Science comprises English, Mathematics, French or German, and one other language.

*Exemption*, partial or complete, may be obtained by candidates who hold the leaving certificate of the Department of Education, or any other examn. regarded by the Senior Lecturer as equivalent thereto.

#### (l) NATIONAL UNIVERSITY OF IRELAND

The Matriculation Examn., held twice a year, comprises six groups of subjects: (a) Irish, (b) Latin or Greek, (c) any modern language approved by the Senate, (d) English, (e) Maths., (f) Latin, Greek, any modern language approved by the Senate, Hist., Geog., Applied Maths. or Physics, Chem., Agric., Commerce, Music, Bot., Physiol., and Hygiene (for women candidates only). Candidates must pass in 5 subjects, and none except engineering students may present more.

Those born in Ireland, whose home residence has not been outside Ireland during the 3 preceding years, must pass in Group (a). Others may present in lieu of Irish either a second language or a second Science subject; they will be expected to attend a course in Irish Lit. and Hist. before obtaining a degree in the Univ. Students entering for Degrees in (1) Arts, Philosophy, and Celtic studies, (2) Law, (3) Med. or Dentistry, (4) Science, Commerce, Agric., Dairy Science, (5) Eng., must take: (1) subjects in groups (a), (b), (d), (e), (f); (2) Latin, and subjects in (a), (d), (e), (f); (3) Latin, (a), (d), (e), and a fifth subject, but if already

registered by the G.M.C., students may take the subjects prescribed for any other faculty ; (4) or (5) one from each of (a), (d), (e), and two others from (f).

*Exemption.* Passes in the Intermediate Senior Grade or the Leaving Certificate Examn. in any of the subjects recognized for matricn. are accepted as equivalent to passes in these subjects at the Matricn. Examn. even though the former examn. was not passed as a whole. Provided that the subjects required have been passed, the Univ. accepts the following in lieu of their own Matricn. Examn.: the examns. numbered 1, 2 (Parts I. and II.), 3, 5, 6, 8 (a), 9, 10, 15 (Higher), and the Scottish Prelim. Examn.

## XXI

### ADMISSION AS UNDERGRADUATES OF THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND OF PERSONS EDUCATED ABROAD

The following notes relate to the admission of students from other countries proposing to take full courses for a First degree, excluding from consideration those who seek admission with advanced standing on the ground of having already pursued courses in other Univs.\* and those who seek only to study without aiming at a degree.

A comparison of the regulations of the several Univs. in question governing admission of such students discloses a general agreement in principle, with divergencies in application.

The regulations are drafted on the understanding that the application to a student educated in another country of the ordinary entrance tests might be inappropriate owing to these tests having been framed with reference to secondary education curricula different from those which obtain in his own country, or to the student having reached a stage in his education at which the passing of ordinary entrance tests would involve a wasteful repetition of preparatory studies. They accordingly provide for the acceptance from such a student of other evidence of academic qualifications: ordinarily certifs. which would entitle to admission to a Univ. in the student's own country, together with such further evidence as may be necessary to ensure that no student shall be admitted to a course of study for a degree without a reasonable prospect of his being able to pursue it to graduation ; in particular, if the student be one whose mother tongue is not English, evidence that he has a sufficient mastery of this language to enable him to follow courses of instruction conducted in English.

The lines along which this policy has been applied in the several Univs. may be briefly indicated as follows :

\* A résumé of Regulations regarding such concessions is given on pp. 16, 17.

At *Oxford and Cambridge* "Responsions" and the "Previous" Examn. respectively take the place of the Matriculation Examn. of other Univs. An *Adviser to Colonial and Foreign Students* is attached to the Univ. Registry at Oxford, and there is an *Adviser to Indian Students* at Cambridge.

Exemption may be obtained, not only from Responsions (and also the Examn. in Holy Scripture) or the Previous Examn., but also from the Entrance Examns. of the other Home Univs., by passing the Oxford or Cambridge School Certificate Examns., which are held in various parts of the British Empire overseas.

*Oxford Responsions.* Exemption may be granted to any person who has obtained (1) a certificate of having passed *either* (a) the matriculation examn. of the Joint Board of the South African Universities, or (b) the Secondary School Certificate Examn. of the Education Dept. of the Transvaal or (Senior Certif.) of the Cape Province, provided that it shows that he has obtained at least 60 p.c. in each of two of the languages Latin, Greek, French, German, Italian, Spanish, of which Latin or Greek must be one; or

(2) a certificate or certificates of having passed one of the following, provided he has satisfied the examiners in two of the said languages, of which Latin or Greek must be one:

Univ. of McGill Matricn., or First Year in B.A. course; Ontario Educn. Department's Middle School Examn.; Univ. of Toronto Senior Matricn., or First Year; Council of Higher Education, Newfoundland, Sen. Matricn.; Brit. Columbia Sen. Matricn., Brit. Columbia Jun. Matricn. (60 per cent in each of the two cases);

Univ. of Adelaide Public (Leaving); Univ. of Melbourne School-leaving (Class B); Univ. of Tasmania Public Leaving; Univ. of W. Australia School-leaving; New South Wales Educn. Department's Leaving Certif.; Univ. of Sydney Matricn. (the two necessary languages at the Higher Standard); Univ. of Queensland Sen. Publ. Examn.;

New Zealand Matricn. or Entrance Scholarship;

Univ. of Malta Matriculation;

Univ. of Hong-Kong Senior Local;

Part I. of the Baccalauréat de l'Enseignement Secondaire in France; or

(3) A certificate or certificates qualifying him for admission to a univ. in Austria, Belgium, Czecho-Slovakia, Denmark, Finland, France, Germany, Holland, Hungary, Italy, Norway, Poland, Sweden, Switzerland, or Yugo-slavia, provided it shows that he has satisfied the examiners in either Latin or Greek; also to any person who has obtained the degree of B.A. or B.Sc. at an approved Indian Univ., provided that his course included the study of English and one of the languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese.

*Cambridge Previous Examn.* A graduate of an "Associated Institution" who has been a member of it for 3 yrs. is entitled to the privileges of an Affiliated Student at C., including exemption from the whole of the Previous Examn. The "Associated Institutions" are:

(1) all the Univs. of Great Britain and Ireland, and St. David's College, Lampeter; (2) in Canada—Alberta, Br. Col., Dalh., McGill, Manit., New Bruns., Queen's, Sask., Tor., Western Ontario; (3) in Australia—all (4) New Zealand; (5) Hong-Kong; (6) in S. Africa—all; (7) in India—All., Bom., Calc., Dacca, Lucknow, Madras, Panj., Patna, Rangoon; (8) in U.S.A.—the 26 institutions belonging to the Assocn. of American Univs. (*see* Appendix XXVI., p. 752), and the following institutions of complex organization: Amherst Coll.; Bates Coll.; Bost. Univ.; Bowdoin Coll.; Brown Univ.; Bryn Mawr Coll.; Cinc. Univ.; Colorado Univ.; Dartmouth Coll.; Georgetown Univ., D.C.; Mass. Inst. of Tech.; New York Univ.; Pittsburgh Univ.; Radcliffe Coll., Camb., Mass.; St. Louis Univ., Miss.; Smith Coll.; Swarthmore Coll.; Tex. Univ.; Vand. Univ.; Vassar Coll.; Wash. (Seattle) Univ.; Wellesley Coll.; Western Reserve Univ.; Williams Coll.

For exemption by means of examns. held or recognized by Univs. of Canada, Australia, New Zealand, and S. Africa, *see* Appendix XX.

A candidate who has obtained a 1st class in the Intermediate Examn. in Arts or Science, or a 1st or 2nd class in the examn. for the B.A. or B.Sc. in an approved Indian Univ., is exempted from the Previous Examn. provided that in some examn. leading up to the B.A. or B.Sc. in that Univ. he has passed in Arabic, Persian, Persian-with-Arabic, Sanskrit, or Pali, in Maths. or Science, and in English. Univs. approved for the purposes mentioned in the preceding paragraph are approved with reference to this paragraph also, together with the Univs. of Agra, Andhra, Aligarh, Benares, and Nagpur.

A candidate who has obtained a First Class in the Intermediate Examn. held by the Board of High School and Intermediate Education of the United Provinces of India is exempted if either in this examn. or the High School Examn. which leads up to it he has passed in a classical language, in Maths., in English, and in History or Geography.

A student who has either (a) passed the examn. of the Coll. Ent. Examn. Bd. for admission to a Univ. or Coll. of the U.S.A., or (b) qualified for admission to a Univ. or Coll. of the U.S. which is an "Associated Institution"; and in the Bd.'s examn., or in examns. conducted by the Assoc. Inst., or partly in one and partly in the other, has obtained the requisite units (or an equivalent standard), may be exempted from Part I., for 4 units in Latin or Greek, and 3 units in a second language other than English; from Part II., for 3 units in Maths. or Sci., or partly in Maths. and partly in Sci.; from Part III., for 3 units in English.

The holder of a certificate qualifying him for admission without further examn. into the Univ. of any European State may be exempted from Part I., if the certificate includes two languages, other than his mother tongue, of which one is Latin or Greek; from Part II., if it includes Mathematics or Science; from Part III., if it includes a modern language, which may be his mother tongue, other than that used for exemption from Part I.

Holders of the Egyptian Government Secondary Education Certif. who are not of European parentage are exempted from Parts II. and III., and also from Part I. provided that in one at least of the two examns. for the Certificate they have passed in French.

A student of non-European descent who has been awarded a scholarship by the Govt. of Palestine for study at Cambridge is exempted if he is a B.A. of the American Univ. of Beirut and if the examns. leading up to his degree include English, Maths., or Science, and one of the languages Greek, Latin, French, German, Arabic, Hebrew.

The holder of a Matriculation Certificate of the Palestine Bd. of Higher Studies who is not of European parentage is exempted from Part I., if he has passed in two languages other than English, whether taken in Group I. or Group IV.; from Part II., if he has passed in Elementary Mathematics (Group IV.), and in one of the following sciences of Group V.: General Physics; Additional Maths.; Mechanics and Hydrostatics; Heat, Light, and Sound; Elect. and Magnetism; Chem.; from Part III., if he has passed in English either in Group I. or in Group IV. In a particular case subjects passed in the Intern. or the Final Examn. for the Arts and Science Dipl. of the Bd. may be approved for exemption in lieu of corresponding subjects in the Matriculation Examn.

*London.* Arrangements may be made for holding the London Matriculation Examn. in the Colonies and Self-Governing Dominions upon the application of the Local Governments. Full information may be obtained from the External Registrar, University of London.

Exemption from the Matriculation Examn. is granted to graduates of certain approved overseas Univs. (*see* p. 108) and to those who have passed all the examns. for such degrees. No other *foreign* certifs. are accepted as giving exemption, but the following are recognized for exemption purposes, provided that the student has passed at one and the same examn. in English, Maths., and three other prescribed subjects, of which one must be Latin or Greek (Cape of Good Hope—Latin) or a Science: Adelaide Matriculation (Senior Public) Certificate, Melbourne School Leaving Certificate, Western Australia School Leaving Certificate, Secondary School Senior Certificate of the Department of Public Education, Cape of Good Hope, Transvaal Secondary School Certificate.

Matriculation may also be obtained by certain classes of candidates through the Special University Entrance Examination. This examn. is open to the following classes of persons: I. Persons aged 19 yrs. or over holding (a) Certifs. of Matricn. in Colonial and Dominion Univs., or (b) Indian or Foreign Certifs. from an academic or other educational authority which in the opinion of the Principal indicate a standard equivalent in their own country to that required for matricn. in this Univ. II. Persons over 25 yrs. of age holding certain professional qualifications included in a schedule approved by the Senate. III. Persons over 25 yrs. of age who in the opinion of the Matriculation and School Examinations Council have had a good general education and possess suitable qualifications for studying for a degree. No person who has entered for the Matriculation Examn. is permitted to enter except in cases approved by the Principal, and normally only one entry is allowed, but in exceptional cases a second entry may be permitted by the Board of Examiners: in no circumstances is a third entry allowed. The Examn. is usually held in March, May, Sept., and Dec., and consists of 4 subjects, of which English and either Maths. or Logic are compulsory.

All candidates must attend in London for both the written part (which lasts one day) and the oral part of the examn. No syllabus is published. The fee is five gs. Detailed regulations on application to the External Registrar, University of London.

*The Northern (English) Universities Joint Board.* Subject to Special Regulations for Entrance to particular Faculties, exemption from the Matriculation Examn. is granted to a student who holds the *Secondary Education Certif.* of the *Egyptian* Ministry of Education, or the *Palestine Matriculation Certif.* which shows a pass in English, Syllabus A, and does not include Geography as one of the six subjects required in that examn., or has passed the Interm. Examn. in Arts, Sc., or Med. of an approved Indian Univ., and generally to candidates holding the Matricn. Certif. of a recognized Univ. of the Empire, provided that the choice of subjects fulfils the Board's requirements, and that all the subjects were passed at one and the same examn., and may, at the discretion of the Board, be granted to "applicants holding certifs. of having passed examns. of a standard at least equal to" that required for matricn. in England. The procedure at Liverpool is as follows: The Senate, after report from the Faculty concerned, shall, before registration, determine whether the applications of foreign, Egyptian or Indian students shall be accepted. Applications for registration from such students shall be received before Oct. 1 in each year, and shall be accompanied by detailed references certifying as to character and educational qualifications. Leeds receives applications from persons resident outside the United Kingdom up to June 30.

*Durham.* Foreign students may matriculate provided they satisfy the Matriculation Board that they have passed an examn. elsewhere of a standard deemed sufficient for matriculation, and that they have sufficient knowledge of English to profit by the proposed course of study.

Durham Colleges: Graduates of Univs. in the U.K. or of other approved Univs. are admitted without further examn. A candidate educated elsewhere than in Great Britain may matriculate if he has passed examns. deemed by the Matricn. Board to be sufficient. Students in Codrington College, Barbados, and Fourah Bay College, Sierra Leone, may matriculate (and qualify for degrees) locally.

College of Medicine: Exemption from the matricn. requirements may be obtained by: (a) Matricn. in the Fac. of Med. of any Univ. in Gt. Britain and Northern Ireland or the Irish Free State provided that the subjects include those required in the Fac. of Med. of this Univ., and by the General Medical Council for registration of medical students; or (b) Matricn. in the Fac. of Med. of any Univ. in the British Crown Colonies or Dominions, or other approved Univs., provided that the examn. passed satisfies the G.M.C. for registration of medical students; or (c) a degree in Arts or Science of any Univ. in Gt. Britain and Northern Ireland, the Irish Free State, the British Crown Colonies and Dominions, or of other approved Univ.

Students from India and the Malay States may be accepted for matricn. if they have passed certain approved examns. in those countries;

copies of the regulations for such students are obtainable from the Dean of the College.

**Armstrong College :** Foreign or Colonial students must produce evidence that they have passed in their own country an examn. of the requisite standard, and in approximately the same subjects as would have been required had they taken one of the recognized examns. ; and further, in the case of foreign students, that they have sufficient proficiency in English to enable them to follow a course of study with profit.

For Indian students no qualification lower than that of the Intermediate Examn. of an Indian Univ. will be considered, except that holders of the Diploma of the Roorkee College will be considered on their merits. Candidates proposing to proceed to a degree in Applied Sc. (Civil, Mech., Marine or Elect. Eng., Naval Arch., Mining or Metall.), who present the Intern. Certif. of an Indian Univ. must have completed that examn. in Maths., Physics, and Chem. All applications from Indian students must be made through the High Commissioner for India, Education Dept., 42 Grosvenor Gardens, London, S.W.1.

**Bristol.** A candidate educated elsewhere than in the U.K. may submit to the Senate evidence of having passed examns. elsewhere equal to the Matricn. Examn. of any Univ. of the U.K., or to any of the other examns. which qualify for matricn. at Bristol; if from an oriental country, he may submit evidence of previous education in his own country and of ability to follow instruction given in English. The Senate may thereupon, if satisfied with the evidence, declare him eligible for matricn.

**Reading.** Exemption is granted to candidates who have satisfied conditions for exemption from the London or the Northern (English) Univs. Joint Board's Matricn. examn.

**Wales.** Candidates who have qualified by examn. for a degree of an approved Univ. or College, or passed the Matricn. examn. of the South African Univs. or of the Swiss Univs., or the secondary school certif. examn. of the Transvaal or Cape Province Education Dept. in the subjects required by the Univ. matricn. regulations, or, if certified by a constituent Coll. as possessing sufficient knowledge of English to profit by a degree scheme of study, the Intermediate Examn. in Arts or Sc. of an approved Indian Univ., may matriculate without further examn.

**Scottish Universities.** Candidates from the British Dominions or Colonies may be exempted from the Preliminary Examn. if they have passed examns. which would admit them to a course qualifying for graduation in Arts or Science in Univs. or Technical Colleges affiliated to a Univ. in the Dominion or Colony from which they come, provided their knowledge of English is sufficient to enable them to follow the courses of instruction with profit. Those whose native language is other than English are required to pass an examn., oral and written, including set books. Students from India are subject to the further condition that they have obtained a first class in an Intermediate Examn. in Arts or Science in a recognized Indian Univ., and have at some stage of their course passed in Maths. or Science and English.

Certifs. entitling the holder to enter upon a regular course of study leading to a degree in Arts, Pure Sci., or Med. in any of the Univs. or Colls. approved by the Assocn. of American Univs. (*see* Appendix XXVI.) are recognized for exemption from the Prelim. examn.

The B. ès L. and B. ès Sc. and similar "certifs. of Maturity or Grades, entitling the holder to enter upon a regular course of study in the Univs. of his own country," are accepted subject to the above-mentioned conditions as to knowledge of the English language. Certain Egyptian, Argentine, and Chinese certifs. are also recognized. Provision is not made specifically for the acceptance of other foreign certifs., but the Board has a general dispensing power in regard to applicants of not less than 21 yrs. of age who satisfy it as to their fitness.

*N.B.*—In each Univ. the Senatus may for any particular class, attendance on which for a specified period is necessary in order to qualify for graduation, determine the conditions of admission to such qualifying attendance.

A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy, Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

*Belfast.* Matriculated students of Univs. outside the British Isles may send written statements and certifs. which should, as a rule, cover all subjects required for matricn. in the Faculty concerned. When a certif. in any subject is not available, other evidence of proficiency may be furnished. The Matricn. Examn. of the Joint Matricn. Board of the Univs. of S. Africa and the Intermediate Examns. of certain Indian Univs. (Alig., All., Ben., Bom., Calc., Dacca, Delhi, Luck., Madras, Mysore, Nagpur, Patna, Panjab, Rang.) are accepted as equivalent, subject for subject, to the Belfast Matricn. Examn. Graduates of a British Univ. are not required to pass the Matricn. Examn.

*Dublin* admits students who have passed the Matricn. Examn. of any Univ. in S. Africa including English, Mathematics, Latin, and one other approved language. The Senior Lecturer is empowered to exempt from the Matricn. Examn. students who, in his opinion, have passed in the subjects required at matricn. at a public examn. of equivalent standard. See, however, p. 329 regarding compulsory subjects in Arts course.

*National University of Ireland.* The Senior Public Examns. of Sydney, Melbourne, Adelaide, Queensland, the Jaffa Gymnasium Maturité, and the Matricn. Examns. of Sydney, Melbourne, Queensland, and New Zealand, and of the Matricn. Board of S. Africa, are recognized as qualifying for exemption from the Matricn. Examn. The Matricn. Examns. of other Univs. in the British Empire overseas (excluding India) are recognized only in combination with an Intermediate Examn. in Arts or Science.

## XXII

STUDENTS FROM OTHER COUNTRIES IN THE  
UNIVERSITIES AND UNIVERSITY COLLEGES OF  
GREAT BRITAIN AND IRELAND \*

1928-29

From AFRICA 1041, AMERICA 984, ASIA 2056, EUROPE 748, THE PACIFIC 341. Grand total 5170. The number of students from each of the countries which contributed largely to these totals and the names of the institutions which received them in large numbers are given below:

AFRICA. *Egypt*.—Total 382: at Birmingham 55, Cambridge 9, Leeds 13, Liverpool 34, London Colleges 129 (Imperial College 27, School of Economics 12, Medical Schools 29), Manchester 25, Edinburgh 55. *Mauritius*.—17: at London 10. *Nigeria and West Africa*.—50. *South Africa and Rhodesia*.—574: at Cambridge 88, Liverpool 20, London Colleges 221 (University College 23, Medical Schools 122, Schools of Music 38), Oxford 74, Edinburgh 101, Glasgow 24, Dublin 20.

AMERICA. *Canada and Newfoundland*.—203: at Cambridge 31, London Colleges 73 (Schools of Music 16), Oxford 47, Edinburgh 35. *South America*.—89: at Cambridge 15, London Colleges 30. *United States*.—556: at Cambridge 62, London Colleges 137 (University College 36, School of Economics 34), Oxford 169, Edinburgh 127. *West Indies*.—128: at London Colleges 45 (Medical Schools 22), Edinburgh 31.

ASIA. *China*.—93: at London Colleges 45 (School of Economics 19), Edinburgh 19. *India, Burma and Ceylon*.—1696: at Birmingham 20, Bristol 23, Cambridge 109, Durham 31, Leeds 41, Liverpool 27, London Colleges 943 (University College 150, King's 71, Imperial 155, School of Economics 119, Oriental Studies 96, Medical Schools 148, Polytechnics 65), Manchester 61, Oxford 68, Sheffield 48, Edinburgh 140, Glasgow 113, St. Andrews 18. *Japan*.—64: London Colleges 37 (School of Economics 18). *Malaya*.—49: London Colleges 19. *Palestine*.—51: London Colleges 30. *Siam*.—37: London Colleges 15.

EUROPE. *Austria*.—23. *Denmark*.—25. *France*.—64: London 23. *Germany*.—157: London 98. *Greece*.—25. *Holland*.—48: London 25. *Hungary*.—29. *Italy*.—29. *Latvia*.—18. *Norway*.—24. *Poland*.—43: London 25. *Roumania*.—23. *Russia*.—60: London 42 (School of Economics 12). *Spain*.—29. *Sweden*.—18. *Switzerland*.—41: London 23.

THE PACIFIC. *Australia*.—216: Cambridge 50, London Colleges 88 (Medical Schools 36, Schools of Music 25), Oxford 41, Edinburgh 24. *New Zealand*.—120: Cambridge 50, London Colleges 37, Oxford 26.

\* Compiled from returns received from all Universities and University Colleges. The returns for 1928-29 have been published in pamphlet form, price rs. Those for 1929-30 are available for reference at the Universities Bureau.

ALL COUNTRIES. Birmingham 121, Bristol 52, Cambridge 511, Durham 64, Leeds 84, Liverpool 127, London Colleges 2328 (University College 395, King's 113, Imperial 267, School of Economics 401, Oriental Studies 124, Bedford (Women) 44, Medical Schools 489, Schools of Music 126), Manchester 154, Oxford 515, Sheffield 71, Edinburgh 629, Glasgow 253, St. Andrews 52, Dublin 25.

1929-30

From AFRICA 995, AMERICA 1071, ASIA 2282, EUROPE 794, THE PACIFIC 344. Grand total 5486. The number of students from each of the countries which contributed largely to these totals and the names of the institutions which received them in large numbers are given below :

AFRICA. *Egypt*.—Total 366 : at Birmingham 35, Cambridge 9, Leeds 21, Liverpool 31, London Colleges 112 (Imperial College 25, School of Economics 11, Medical Schools 25), Manchester 25, Edinburgh 62. *Mauritius*.—27 : at London Colleges 18. *Nigeria and West Africa*.—52. *South Africa and Rhodesia*.—531 : at Cambridge 52, Liverpool 28, London Colleges 230 (University College 28, Medical Schools 119, Schools of Music 40), Oxford 69, Edinburgh 104, Glasgow 23, Dublin 5.

AMERICA. *Canada and Newfoundland*.—233 : at Cambridge 33, London Colleges 65 (Schools of Music 27), Oxford 50, Edinburgh 37. *South America*.—80 : at London Colleges 30. *United States*.—621 : at Cambridge 53, London Colleges 178 (University College 39, School of Economics 45), Oxford 143, Edinburgh 117. *West Indies*.—140 : at London Colleges 49 (Medical Schools 19), Edinburgh 35.

ASIA. *China*.—143 : at London Colleges 68 (School of Economics 42), Edinburgh 26. *India, Burma and Ceylon*.—1846 : at Birmingham 22, Bristol 26, Cambridge 120, Durham 39, Leeds 50, Liverpool 23, London Colleges 940 (University College 158, King's 82, Imperial 139, School of Economics 114, Oriental Studies 100, Medical Schools 201, Polytechnics 56), Manchester 59, Oxford 65, Sheffield 57, Edinburgh 137, Glasgow 100, St. Andrew's 10. *Japan*.—61 : London Colleges 29 (School of Economics 17). *Malaya*.—47 : London Colleges 11. *Palestine*.—58 : London Colleges 41. *Siam*.—42 : London Colleges 10.

EUROPE. *Austria*.—22. *Denmark*.—25. *France*.—63 : London 25. *Germany*.—163 : London 97. *Greece*.—23. *Holland*.—46 : London 19. *Hungary*.—31. *Italy*.—38. *Latvia*.—18. *Norway*.—32. *Poland*.—44 : London 22. *Roumania*.—29. *Russia*.—64 : London 51 (School of Economics 17). *Spain*.—30. *Sweden*.—21. *Switzerland*.—43 : London 21.

THE PACIFIC. *Australia*.—223 : Cambridge 35, London Colleges 105 (Medical Schools 51, Schools of Music 22), Oxford 41, Edinburgh 21. *New Zealand*.—118 : Cambridge 28, London Colleges 53, Oxford 18.

ALL COUNTRIES. Birmingham 104, Bristol 167, Cambridge 448, Durham 72, Leeds 103, Liverpool 135, London Colleges 2520 (University College 442, King's 141, Imperial 240, School of Economics 458, Oriental Studies 119, Bedford (Women) 41, Medical Schools 555, Schools of Music 153), Manchester 139, Oxford 478, Sheffield 79, Edinburgh 647, Glasgow 260, St. Andrew's 83, Dublin 27.

## XXIII

POST-GRADUATE SCHOLARSHIPS, ETC., AND GRANTS  
FOR ADVANCED STUDY AND RESEARCH

- A. British and Overseas University and College Funds.
- B. Trust and Foundation Funds.
- C. British and Dominion Government Funds.
- D. Local Education Authority Funds.
- E. Commercial and Industrial Funds.
- F. Foreign Trust and Foundation Funds.
- G. Miscellaneous.

Information as to the provision made by the several Universities for the promotion of advanced study and research by the offer of scholarships, fellowships, etc., limited to their own graduates, will be found under the heading "Scholarships, etc." in the sections of the Yearbook relating to those Univs. Particulars of some other aids to British students for advanced work, not so limited, are given in this Appendix.

## A. BRITISH AND OVERSEAS UNIVERSITY AND COLLEGE FUNDS

**BIRMINGHAM:** *Bowen Scholarships in Chemistry* (3), *Metallurgy* (1), and *Engineering* (2), £95 each. Open to candidates who have spent 3 yrs. in a Univ., preferably Birmingham.

**CAMBRIDGE:** *Almeric Paget Studentship*, £150, for Polit. Sc., Economics, etc., open to graduates of any Univ., or those about to graduate. Election after examn. (English Essay and questions on Polit. Hist. and Econ.). Applications receivable up to July. Student to come into residence at Corpus Christi Coll. for the academic year succeeding election.

*F. W. Maitland Memorial Fund.* Grants may be made to any person engaged in any research in the History of Law or of Legal Language or Institutions, or for delivery of lectures, publication of works, etc., connected with these subjects.

*Whewell Scholarships* in International Law, one at least annually of £100 for 2, with possible extension to 3 yrs., open to all persons whether already members of the Univ. or not who are under 25.

*Gwyneth Pretty Research Studentship*, of £200 for 3 yrs., for research in the Aetiology, Pathology, or Treatment of Disease with particular reference to diseases which disable in childhood or early life. Candidates need not be members of the Univ. It is offered triennially.

*J. L. Walker Studentship* in Pathological research, £300 p.a. for 3 yrs. Candidates need not be members of the Univ.

*Pinsent-Darwin Studentship* in Mental Pathology, of about £227 for 3 yrs. Candidates need not be members of the Univ.

*Balfour Studentship* in Biological research, especially in Animal

Morphology, £300 p.a. for 3 yrs.; student need not be a member of the Univ., but must study in it for at least 3 terms.

*Balfour Memorial Fund.* Grants may be made from this fund for original research in Biology, especially Animal Morphology, to the Balfour Student or to any other person engaged in such research.

*Hort Memorial Fund,* £65 p.a., for grants to persons engaged in Biblical, Hellenistic, or Patristic research, or undertaking connected therewith.

*Gordon Wigan Fund,* £300 p.a., for scientific educn. or research.

*Worts Fund* for investigations in foreign countries respecting religion, laws, etc., or geographical discovery or antiquarian research therein.

*Clare College Research Studentships,* £100 p.a., not more than two at a time; graduate members of any Univ. may be elected, but preference to members of the College.

*Emmanuel College Research Studentship.* Value £150 p.a., tenable for 2 yrs., with a possibility of renewal. Open to a graduate from another Univ. or other qualified student beginning research at Cambridge, with a preference to one who has already done one but not more than 2 yrs.' research. The Studentship may be held by a student already endowed from other sources, if he can show that further assistance is necessary. Applications should reach the Master not later than June 30, and should be supported by two certificates of character, a birth certificate, brief account of career, with names of professors or teachers under whom applicant studied, precise statement of proposed course of research, and any evidence of general ability and of special fitness for proposed research. A studentship of the same value is open to graduates of the College.

Rooms in the College and Commons are assigned to the Lionel de J. Harvard Memorial student nominated by the President of Harvard Univ.

*Pembroke College: Gabriel Stokes Studentship* for research in Physics, about £425 p.a. for 3 yrs., renewable for a term not exceeding 5 yrs. Open to graduates (preferably of Cambridge) of from 23 to 28 yrs. of age. Next award, 1932 or later.

*Peterhouse Research Studentship* (Abercrombie Smith) (suspended for the time being), £150 p.a. for 2 yrs. Open to graduates of any British or Foreign Univ. intending to proceed to Ph.D. degree.

*Fry Studentship* of £300 for 2 yrs., for advanced study in either Moral Sciences, Law, Hist., Mod. Langs., Econ., or English, open to a graduate of any Univ. in Gt. Brit. nominated by his Vice-Chancellor.

*Trinity College Research Studentship.* A Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £300 p.a., tenable during preparation for the Ph.D. degree in the Univ. of Cambridge. Open to men who have graduated or are otherwise qualified, provided that they have not commenced residence in the Univ. of Cambridge. Tenure is conditional on entry as Research student and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, should reach the Senr. Tutor not later than July 1.

*First Girton College Fellowship*, value £300 p.a., awarded to a woman of Univ. training, not necessarily a student of Girton, distinguished in some branch of intellectual work. Nominations hereafter to be made by Coll. for life or term of years at discretion. *Present holder*, Mrs. Arthur Strong (Eugénie Sellers).

*Jex-Blake Fellowship* in Arts, value £250 p.a., for research in any branch of learning except Maths. and Nat. Sciences. Open to women who are graduates or have taken Hons. in a final degree examn. of any Univ., and to members of Girton Coll. Roll. Tenure as from July 1 or Oct. 1 at Fellow's option. Applications to Secretary of Coll. not later than Feb. 1.

*Pfeiffer Fellowship* in Arts, value £250 p.a. for 3 yrs. Open under same conditions as Jex-Blake Fellowship above.

*Yarrow Fellowship*, value £300 p.a. for research in mathematical, physical, and natural sciences (incl. Chem., Elect., Eng., Bot., Geol., Med., Agric., etc.). Open under same conditions as Jex-Blake Fellowship above.

LEEDS: Gas Eng., Textiles, Colour Chem., Arts and Sc.—See p. 89.

LIVERPOOL: *Garrett International, Johnston Colonial*—See p. 100.

LONDON: *Dixon Fund for assisting Scientific Investigations*. Income available for grants—about £275. Applications receivable by the Principal between April 1 and May 15, from whom further particulars can be obtained. Full information required as to nature and objects of research proposed, estimated amount required (detailed estimate to be given), any previous grant received for same object, any apparatus of permanent value needed. Names of two referees to be given. Grants are made from the fund annually by the Senate for purchase primarily of apparatus and materials of a special nature to be used in scientific investigation. Instruments, specimens, etc., purchased out of grants to be returned to the Univ. Published results of researches to refer to the Fund, and 10 copies to be supplied to the Univ. Preference given to applicants who are graduates of the Univ. or who undertake to work in a Dept. or School of the Univ. or other Instn. connected therewith.

*Charles Graham Medical Research Fund*. A Scholarship in Pathology, value not exceeding £400 p.a. for 2 yrs., is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ. College Hospl. as a Teacher under the direction of the Prof. of Pathology." Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work.

*Keddey Fletcher-Warr Studentships for Post-Graduate Research in Science* to be conducted in the British Isles or other approved place. Value £200 for 3 yrs., renewable. Open to men and women of European descent who are graduates of some British Univ. or have qualified for

such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the Public Press.

*Laura de Saliceto Studentship*, value £150 for 2 yrs., renewable for total of not more than 5 yrs. for advancement of Cancer research. Open to both sexes irrespective of Univ. of which they are members. The Studentship may be held in conjunction with a physiol. or pathol. laboratory appointment or a clinical appointment affording special opportunities for study of Cancer. Vacancies in the Studentship will be advertised in the public press. Applications before July 1 of year of appointment, and further particulars from the Academic Registrar, Univ. of London, S. Kensington, S.W.7.

*Lindley Studentship*, value £120, awarded every 3rd yr. if there is a candidate of sufficient merit, for research in History to be undertaken at the Institute of Hist. Research. Open to both sexes; preference to a graduate of the Univ. or to candidate prepared to work for a higher degree of the Univ. Applications to the Sec., Inst. of Hist. Research, Malet Street, London, W.C.1, before May 30, 1931.

*Metcalfe Studentship* for women, value £100 at least, tenable at London School of Economics. Open to any woman graduate of a United Kingdom Univ. for research on some social, economic, or industrial problem approved by the Univ.; preference to a student proposing to study a problem bearing on the welfare of women. Further particulars from, and applications (before Sept. 1) to the Academic Registrar, Univ. of London, S. Kensington, S.W.7.

*Julian Corbett Prize*, value £50, open to any investigator admitted to the Institute of Historical Research who has been working either there or, if a naval officer, under the advice of the Committee of the Institute for not less than one yr. prior to date of sending in work for competition. The work shall be either a dissertation or an edition of an original document or documents, or a report on material at home or abroad illustrating modern naval history. The prize is awarded annually, and applications should reach the Sec., Institute of Historical Research, Malet Street, London, W.C.1, before Oct. 1.

*Rogers Prize*, value £100; next award in session 1930-31 for an essay or dissertation on some medical or surgical subject named and appointed by the Univ. and published in such manner and at such time as Univ. may determine. Open to all persons on the Medical Register of the U.K. The essay or dissertation to be addressed under a motto or device to the Vice-Chancellor, and delivered at the Univ. on or before 4 P.M. on the last day, other than Sunday, of April in the yr. of award.

*Journalism Exhibns.* £80-£100 p.a. for 2 yrs. Three awarded in 1929.

*Meyer Studentships* in History and Geography of India. Endowment, £3000, tenable at Univ. Coll. by graduates of Univs. of the Empire studying for approved higher degrees in the Univ. of London.

*Imperial College: Henry George Plimmer Fellowship* in Pathology, £300. Candidates must be of British nationality.

*London School of Economics: Research Studentship*, open to graduates of any Univ., £200. *Women's studentship*, £150, open to women students for research in Economic History. Next awards 1930. See also *Metcalf Studentship* above.

*Westfield College* (for women). Two *research studentships* open to graduates of any Univ. Value, £30 and £60 respectively, plus free board and lodging at the College (see p. 156). Applications for ensuing academic year, receivable in the Lent Term, must be accompanied by a scheme of work, 8 copies of 3 testimonials and names of 2 references.

MANCHESTER: *Chemistry, Economics, Engineering, etc.*, see p. 194.

MANCHESTER: MUNICIPAL COLLEGE OF TECHNOLOGY. *Research Scholarships* (10) in Technology, £100 each, open to graduates of any Univ. in the Empire and others possessing special qualifications.

OXFORD: *Philip Walker Studentship for Research in Pathology*. £200 p.a. for from 1 to 5 yrs., not restricted to members of the Univ., open to women as well as men.

*Weldon Memorial Prize* (endowment, £1000), awarded once in 3 years, for contribution in 6 preceding years to *Biometric Science*.

*Somerville College: Lady Carlisle Research Fellowship*, £200 a yr. for 5 yrs., renewable up to 10 yrs. Open to all women of European race and to naturalized Jewesses. Last award 1929.

*Lady Margaret Hall: Susette Taylor Annual Fellowship* for independent study abroad. Value £150, open to women graduates of any Univ.

ROYAL COLLEGE OF PHYSICIANS, London: *Streetfield Scholarship*, £250 for 3 yrs. for research in Medicine or Surgery, open to non-members. For particulars apply to the Registrar, Pall Mall East, London, S.W.1.

SCOTTISH UNIVS., see p. 275.

ROYAL COLLEGE OF PHYSICIANS, Edinburgh: *Freeland Barbour Fellowship*, value about £100, awarded biennially; next award May 1931. Open to those who have done original work for the most part in the two preceding yrs., in the Laboratory of the Royal Coll.

*Lister Fellowship*, value about £100, awarded biennially, next award May 1930, open to licentiates or graduates in Med. or Surg. for original research carried on for the most part during the 2 preceding yrs. in the Laboratory of the Royal Coll.—preference to research in Bacteriology.

BELFAST: *Musgrave Research Studentships*, £200 each, open to British subjects, graduates of at least one year's standing in a Univ. of the British Empire, for research in *Pathology, Biology, Chemistry, Physics, Physiology*. Latest date for applications (10 copies and not more than 2 testimonials as to fitness for research)—July 1.

MCGILL UNIVERSITY, Montreal. The *A.A. Browne Memorial Fellowship* (endowment, \$10,000), open to graduates of any recognized medical school. Special preference given to obstetrics and gynaecology.

QUEEN'S UNIVERSITY, KINGSTON, ONT. *Milton Hersey Fellowship* in Chemistry. Annual value, \$500. Open to graduates of all Univs. and technical colleges. (See also p. 414.)

TORONTO UNIVERSITY, *Charles Mickle Fellowship*. Endowment (\$25,000) awarded annually to that member of the medical profession who is considered by the Council of the Faculty of Medicine of the Univ. to have done the most during the previous ten yrs. to advance sound knowledge of a practical kind in medical art or science. 17 other fellowships, cf. p. 434 above.

## B. TRUST AND FOUNDATION FUNDS

1. General.
2. Art and Archæology.
3. Agriculture, etc.
4. Engineering and Naval Architecture.
5. Science and Industry.
6. Medicine.

### I. GENERAL

BRITISH ACADEMY. *Rose Mary Crawshay Prize* for English Literature, £100. Open to women of all nationalities for historical or critical work, preference being given to work regarding Byron, Shelley, or Keats.

*Cromer Greek Prize*, £40. Open to British subjects under 26 yrs. of age. Address—The Secretary of the British Academy, Burlington Gardens, London, W.1.

THE GARTON FOUNDATION, 1 Lowther Gardens, Exhibition Rd., London, S.W.7. *The Garton Studentship*, value £400, for study during a year or more, of social or economic problems of fundamental importance. Open to British subjects recommended by the Universities of the Empire who submit a thesis and propose a subject for research. Next award in 1931.

GILCHRIST EDUCATIONAL TRUST. Most of the Scholarships, etc., awarded by the Trust are for students of particular institutions. The following are not so restricted :

Scholarship in *Chinese*. £50 tenable at the School of Oriental Studies, London, or, in the case of a student of the School of 1 yr.'s standing, in an Oriental country. Open to candidates of European origin. Awarded on results of an examn. held in July in Grammar, 2 set books, and unseen translation. Applications (in a prescribed form) receivable by the Director of the School, Finsbury Circus, London, E.C.2, up to May 15.

Several Scholarships of £30 tenable for 1 yr. in a *Training College for Women*. Open to graduates of a British or other recognized Univ.

Studentship tenable at the *British School at Rome*, £75 for 1 yr. At least 5 months to be spent in Rome. Open to men and women under 25 yrs. for a definite course of study for which Rome offers advantages and calculated to assist them in their profession. Applications with statement of previous training and proposed course, copies of not more than 3 recent testimonials based on personal acquaintance with candidate and his work, and any references, should reach the Secy. of the School, 19 Bloomsbury Sq., London, W.C.1, by July 31.

Studentship in *Geography*. £80 (in special cases, £100) for a definite

course of advanced work extending in general over 9 mos., to be approved by the Trustees. No other work to be undertaken without written consent of the Trustees during the tenure of the Studentship. Open to Teachers of either sex who have had experience in teaching Geog. Applications, stating age, career, training in Geog., experience in teaching Geog., proposed work, time to be devoted to it, name of Headmaster, etc., to whom reference can be made, to reach Prof. Lyde, Yew Garth, Sandhurst, Berks, by Feb. 1. The student is required to sign a declaration of intention to continue to be a teacher of Geog. for 2 yrs. after expiry of the Studentship.

*Address of the Secy. to the Trustees:* 1 Plowden Buildings, Temple, London, E.C.4.

**GOLDSMITHS' COMPANY.** Senior Studentships (total value £750 p.a.) not exceeding £250 p.a. open to British subjects under 26 years of age at date of application for assistance in post-graduate studies. Awards conditional on candidates taking First or Second Class Hons. in a Final School at Oxford or a Tripos at Cambridge, if they have not already done so. Students of Girton and Newnham are eligible on same terms as men. Renewable for 2nd year at option of Company. The holder must pursue his studies under the supervision of a recognized Univ. teacher in such place—either in England or elsewhere—as his teacher may approve. Applications with recommendation from Head of their Coll., 3 references to teachers, and programme of work must be addressed on or before June 1 to The Clerk, Goldsmiths' Hall, London, E.C.2, from whom further particulars are obtainable.

**IMPERIAL ORDER DAUGHTERS OF THE EMPIRE.** The I.O.D.E. award overseas post-graduate scholarships for study in Britain. The list of post-graduate students for the session 1929-30 includes 2 girls and 6 young men who come from British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec, New Brunswick, and Prince Edward Island. *Address of the Order*—Dominion Bank Chambers, 238 Bloor Street East, Toronto 5.

**ALBERT KAHN TRAVELLING FELLOWSHIPS.** Founded by M. Albert Kahn of Paris "to enable men of proved intellectual attainments to enjoy during one yr. or more sufficient leisure and freedom from all professional pursuits or preoccupations to enter into personal contact with men and countries they might otherwise never have known; to issue from the world of books and their narrow sphere of habitual interests into the broader world of various civilizations, and all such human interests, struggles, and endeavours as go to the making of general civilization." Value originally £660 (namely, £600 for travelling expenses and £60 for books and souvenirs), increased since 1920 to £1000. Open to British subjects, men or women, who have graduated, or qualified for graduation, at a Univ. in Gt. Britain or Ireland. No age limit is imposed, but preference will probably be given, other things being equal, to persons between 25 and 35. Elections are made not later than May 31 each yr. on nominations made by the Vice-Chancellors of the Univs. in the U.K., or the President of the Royal Society, or the Presi-

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dent of the British Academy. *Address* of the Secy. to the Trustees, University of London, South Kensington, S.W.7. Fellow for 1929-30: J. G. Barrington Ward, M.A., Christ Church, Oxford.

SIR RICHARD STAPLEY EDUCATIONAL TRUST. Constituted in 1919, to administer a fund to assist educational progress by subsidizing necessitous students, promoting educational experiment and research, etc. In 8 years it has assisted over 1000 students at universities. In 1924 the Trust published a report on the scholarship system with special reference to grants by Local Education Authorities entitled "The Poor Student and the Universities." Bursar, Percy Alden, M.A. *Address*—32 Gordon Sq., London, W.C.1.

### 2. ART AND ARCHÆOLOGY

BRITISH SCHOOL AT ROME. In addition to the scholarships and studentships mentioned below on p. 695 the following Scholarships are attached to the School:

*The Rome Scholarship in Engraving*, value £250 p.a. and tenable for 2 or 3 yrs. Open to British subjects who are unmarried and under 27 yrs. of age. *The Bernard Webb Studentship* for the historical and critical study of Architecture, tenable for 1 yr. and open to students who have been members of the Architectural Assn. for 4 yrs. Value £250. *Rome Scholarship for Research* in Roman or Italian Hist., or Antiquities or Lit. of the value of £150 p.a., tenable for 2 yrs. and open to students under 30 yrs. of age. *Pelham Studentship* in Archæology, value £100, awarded by the Univ. of Oxford. *Gilchrist Studentship*, value £75, tenable for 1 yr. and open to students under 25 yrs of age (see p. 689). *Address* of the Secretary, British School at Rome, 1 Lowther Gardens, Exhibition Road, London, S.W.7, and of the Secretary, Faculty of Archæology, 50 Bedford Square, London, W.C.1.

BRITISH SCHOOL AT ATHENS. A studentship of value £100 tenable for one year is placed at the disposal of the Univs. of Oxford and Cambridge alternately. All students admitted to the School are expected to spend at least 3 months in Greece and to be engaged on some research work. They can, on payment of a small rent, reside in the School Hostel, and are admitted to use of the library. They also obtain special facilities for working in Museums and in travelling. Students of the British School at Rome are *ipso facto* admitted as students at Athens. *Address* of the Secy., 50 Bedford Sq., London, W.C.1.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851. Rome scholarships in Architecture, Sculpture, and Mural Painting. (See 5 below.)

### 3. AGRICULTURE, ETC.

EMPIRE COTTON GROWING CORPORATION, Millbank House, 2 Wood St., Millbank, London, S.W.1. In 1929-30 a maximum of post-graduate studentships were offered to provide opportunity to men of British nationality, either for additional training in research methods in, or for advanced study of, plant physiology, genetics, entomology, tropical

agriculture, etc. Value £250 each, in addition to travelling expenses, tuition fees in the case of those holding their studentships at the Imperial College of Tropical Agriculture, Trinidad, with additional allowances for books and apparatus.

THE COLLEGE OF ESTATE MANAGEMENT, 35 Lincoln's Inn Fields, London, W.C.2. *Travelling Scholarship* in Agriculture, value not over £300 for one yr. for study of Agricultural methods in this or other European countries outside the British Isles. Open to British born graduates of a British Univ. or those holding other approved qualifications. Candidates, who must be under 30 yrs. of age, must apply on a prescribed form before Dec. 31, to the Secy. of the Coll.

#### 4. ENGINEERING AND NAVAL ARCHITECTURE

BOARD OF EDUCATION. Whitworth Scholarships. (See C. below.)

THE INSTITUTION OF NAVAL ARCHITECTS, 2 Adam St., Adelphi Terrace, London, W.C.2, offered for 1930, scholarships tenable 4 years at Glasgow Univ., 3 years at Armstrong College, Liverpool Univ., R.N. College, and City and Guilds (Engineering) College, London. In Naval Architecture, one of the value of £130 p.a. In Marine Eng., one of the value of £100 p.a. Open to British apprentices or students. Two Post-graduate Scholarships in Naval Architecture; candidates to be nominated by above Univs., each for two years, one of £250 p.a. and the other (a part-time scholarship in N.A. or Marine Eng.) £150 p.a.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851. Post-graduate scholarship in Naval Architecture. (See 5 below.)

THE ROYAL SOCIETY. *Yarrow* Research Professorship. (See 5 below.)

#### 5. SCIENCE

BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH. Founded by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in 1913 for advancement of Science by means of research. At present £250 p.a. for 2 yrs. subject to report at end of first year. Tenable at Imperial College of Sc. and Tech., London, under supervision of a Prof. Fellows are required to devote their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25 yrs. of age, of European descent by both parents, who have taken a degree in any Univ. in the British Empire, or Diploma or Associateship of any College approved by the Trustees. Not open to holders of any other Scholarship or Fellowship. Elections, advertised 3 mos. in advance, are made annually in July. Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to carry on the research for 2 yrs. without aid of Fellowship, names of not more than 3 referees, including one on the staff of the Univ. or College or a College of the Univ. at which the degree, etc., was obtained. Testi-

monials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration. Inquiries may be addressed to the Rector of the Imperial College, South Kensington, London, S.W.7.

**ROBERT BLAIR FELLOWSHIPS.** Two fellowships in Applied Science and Technology awarded annually for advanced study or research in the Dominions, U.S.A., or other foreign countries. £450 each. Open to British subjects at least 21 yrs. of age. Preference to students of Engineering Science, and to those who have completed a course of study in London Institutions or been identified with the London teaching service. Applications receivable by the Education Officer, County Hall, London, S.E.1, up to June 18.

**INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND.** *Pedlar Research Scholarship* open to Fellows and Associates of the Institute, £300 a year, for at least 12 mos. The Scholar, who may not hold any other Scholarship or Bursary without the knowledge and consent of the Council, must work on a problem suggested by the Council which needs investigation in the public interest. Next award June 1930. Particulars from the Registrar of the Institute, 30 Russell Square, London, W.C.1.

**MARINE BIOLOGICAL ASSOCIATION.** *Ray Lankester Fund*, £100. See App. XXIV., A., II. 1.

**THE MITCHELL TRUST.** *Mitchell Studentship*, value £100, open to graduates of a British Univ. possessing the necessary City qualifications, for study and investigation of some definite feature of business or industrial organization at home or abroad. Further particulars from and applications (not later than March 31) to Clerk to the Mitchell Trustees, Mr. E. A. Godfrey, 1 Plowden Buildings, Temple, London, E.C.4.

**THE NEW ZEALAND INSTITUTE**, Wellington, New Zealand, established in 1867, controls 2 funds which are available for grants to aid scientific workers: the Government Research Grant Fund and Hutton Memorial Fund. It also controls 3 Memorial Funds from which prizes are awarded at intervals for distinguished scientific work. It publishes annually its *Transactions and Proceedings*.

**RAMSAY MEMORIAL FELLOWSHIPS.** The Trustees (Chairman, Sir Hugh Bell, Bt.; Secy., C. O. G. Douie, University College, London, Gower St., London, W.C.1) award from time to time 3 Fellowships, value £300 a yr. for 2 yrs., for Chemical research. They can be held in any Univ. or other place in the U.K. possessed of the requisite facilities for research; also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates nominated by the Univ. and the Royal Technical College, Glasgow. Fellowships are also provided in connexion with the following Dominion and Foreign countries: Canada, France, Greece, Holland, Italy, Japan, Spain, Sweden, and Switzerland. The value is normally £300 a year, but some of the fellowships are of greater value.

**THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851** offers: I. *Science Research Scholarships to Overseas Universities*, to enable selected

students who have already completed a full University course and given sufficient evidence of capacity for scientific investigations to devote themselves for 2 years to research work under conditions most likely to equip them for practical service in the scientific life of the Empire. Value, £250 p.a., with supplements in certain cases. Tenable ordinarily for 2 yrs., and in exceptional cases for 3 yrs., at any institution approved by the Comms., but not, except in very special circumstances, in the Dominion in which the scholar has received his scientific education; open to British subjects of age (except in very special circumstances) under 26 yrs. At present not less than 8 (Canada 3, Australia 2, S. Africa, N.Z., and Irish Free State, 1 each) are offered annually; recommendations receivable (South Africa, Irish Free State, May 1) (Australia, N.Z., and Canada, June 1) from the following Univs.: Alb., B.C., Dal., McG., Mani., Queen's (Ont.), Sask., Tor., and any of the Univs. of Australia, N.Z., S. Africa, and the Irish Free State. A Scholar is not permitted to hold any position of emolument likely to conflict with the devotion of his whole time to the objects of the Scholarship, nor to accept any additional emoluments without the previous consent of the Comms.

II. *Senior Studentships*, at present 5 in number, each of £400 p.a. with supplements in certain cases, for 2 yrs. or, in special cases, for longer; open to British subjects not (except in very special circumstances) more than 30 yrs. of age, on recommendation, receivable up to May 1, by Profs. and Heads of Depts. through the executive authorities of such Institutions as may be invited by the Comms. to nominate; tenable at any Institn. at home or abroad approved by the Comms. The student is not permitted to undertake any work likely to conflict with the devotion of his whole time to the objects of the studentship, but a limited amount of time may, with the approval of the Comms., be spent in delivering an advanced course of lectures. He is not debarred from holding another position of emolument, but in such cases the Comms. may modify the value of the studentship.

III. *Post-graduate Scholarship in Naval Architecture*. £250 p.a. for 2 yrs. for research work (for which no emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at home and abroad. Open to British subjects under 30 who have passed with marked distinction through a course of study and practical training in N.A. at, and been nominated by, the R.N. College, Greenwich, Univ. of Glas. or Liv., or Armstrong College. The nominations are reported on by the Council of the Inst. N.A.

IV. *Industrial Bursaries* of not more than £156 p.a. for 1, 2, or, exceptionally, 3 yrs. to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry. Open to British subjects aged under 25 recommended through the executive authorities of such instns. as may be invited by the Comms. to nominate. A candidate must have been a *bona fide* student of Science for a term of 3 yrs., should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within a reasonable period obtain, an industrial post

to be approved by the Commrs., and is in need of pecuniary assistance to enable him to hold such a post. 32 bursaries awarded in 1929.

V. *Rome Scholarships in Architecture, Sculpture, and Mural Painting.* Each of the value of £250 p.a. and tenable at the British School at Rome for 2 or 3 yrs. Open to Brit. subjects who are unmarried and under the age limits prescribed by the Facs. conducting the annual competitions. For further Scholarships attached to the British School at Rome, see p. 691.

*General.* Women are eligible for all the Scholarships except III. and IV. Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7. Particulars relating to the Rome Scholarships competition may be had on application to the Hon. General Secy., British School at Rome (same address).

THE ROYAL SOCIETY, Burlington House, Piccadilly, London, W.1. *Foulerton Research Fund.* (a) Research Professorships, with stipend £1400-£1500 p.a. *Duties:* To conduct, in a place approved by the President and Council of the R.S., such original researches in medicine or the contributory sciences, on lines approved of by the President and Council, as shall be calculated to promote the discovery of the causes of disease and the relief of human suffering. The Profs. shall devote the whole of their time to research. Tenable for 5 years in the first instance, the appointment being thereafter renewable for further periods of not more than 5 years at a time. (b) Research Studentship of £700 p.a., restricted to British subjects. *Duties:* To conduct researches in medicine or the contributory sciences, under the supervision and control of the Foulerton Committee, to whom the student will be required to report from time to time on the progress of his work. Tenable for 3 years and renewable from year to year, with a maximal total tenure of 6 years from the first award. Incumbents: (a) Prof. A. V. Hill and Dr. E. D. Adrian; (b) vacant.

*Yarrow Research Professorships* for research (whole-time) in Math., Physical, Chem., or Engineering Sciences. Value, £1000-£1400 p.a. Tenable at a University or other place to be approved by the President and Council of the Royal Society for a period of 5 years, the appointments being renewable for further successive periods of 5 years. Incumbents: Prof. A. Fowler, Prof. G. I. Taylor, and Prof. O. W. Richardson.

*Mackinnon and Moseley Research Studentships.* Each of the value of £300 p.a. Tenable in the first instance for 2 years, but renewable in exceptional cases from year to year, total length of tenure not to exceed 5 years. *Mackinnon Studentship* for "furthering Nat. and Physical Sc., including Geol. and Astron., and . . . original research and investigation in Path." *Moseley Studentship* for "the furtherance of experimental research in Path., Physics, and Chem., or other branches of science, but not in Pure Maths., Astron., or any branch of science which aims merely at describing, cataloguing, or systematizing."

*Smithson Research Fellowship* in Natural Science. The Royal Society hold the capital of the Fund in trust. The income is administered by a Joint Committee of the Society and the Univ. of Cambridge. The Fellowship, £800 p.a. (which may rise to £850 in 3rd and 4th yr. and

thereafter to not more than £900), with superannuation provision, is open normally to British subjects of either sex, including subjects of the Dominions, Colonies, and Indian Empire; but the Committee may in special circumstances invite a foreigner of scientific distinction to apply. Preference to candidates not over 35 yrs. of age. The holder will work in the Univ. of Camb. if appropriate laboratory accommodation is available.

*Sorby Research Fund* for original Scientific research. The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ. of Sheffield for 5 yrs., renewable for further periods. No permanent duties outside the research work may be undertaken. Appointments are made by a Committee composed of 4 persons appointed by the Council of the R.S. and 3 appointed by the authorities of the Univ. of Sheffield.

For all the above appointments applications are invited by public advertisement.

*Scientific Relief Fund* (income about £700 p.a.) to aid scientific men or their families requiring assistance

*Minor Funds*: Tyndall Mining Research, income about £40 p.a., for a studentship; Gunning, about £35 p.a.; Joule, about £70 p.a.; Lawrence, about £170 p.a., for research in Diseases in man and animals.

*Government Grants for Scientific Investigations*. The conditions are notified annually in time for applications to be received by March 31. Only British subjects are eligible. Appropriations in 1929 numbered 123, the amounts ranging between £10 and £250.

*Medals*. Copley, for Philosophical research (any country); Rumford (biennial), for useful discovery in Light or Heat, in any part of Europe; Royal (2), for advancement of Natural Knowledge; Davy, for Discovery in Chemistry in Europe or Anglo-America; Darwin (with grant of £100, biennial), for work in Darwinian field; Buchanan (with money grant, quinquennial), for service to Hygienic Science or Practice; Sylvester (with money grant, triennial), for Mathematical Research; Hughes (with money grant), for discovery in Physical Sciences, particularly Electricity and Magnetism. The last four are open to foreigners as well as to British subjects.

**SALTERS' INSTITUTE OF INDUSTRIAL CHEMISTRY.** The Institute offers Fellowships to chemists of graduate standing to enable them to undergo a special further training at home or abroad for careers in chemical industry. The value of a Fellowship is normally from £250 to £300. The course to be followed by a Fellow will be designed to add to his scientific equipment. Further particulars from the Director, Salters' Hall, St. Swithin's Lane, London, E.C.4.

**SIR JOSEPH WHITWORTH'S FOUNDATION.** (See C. below.)

**ZOOLOGICAL SOCIETY, Regent's Park, London, N.W.1.** The Society offers a research fellowship in Comparative Pathology, value £600 p.a., of unlimited duration, awarded in 1928 to Lt.-Col. A. E. Hamerton, C.M.G., D.S.O., late R.A.M.C.; one of £350 for 3 yrs. (Aquarium Research), next award 1930; and one of £450 for 5 yrs. (Anatomical Research), next award 1932.

## 6. MEDICINE

**BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH.** Founded in 1909 by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in memory of his brother Alfred, "to promote the advancement by means of research of Medicine and the allied sciences in their relation to Medicine." Open to graduates, men or women, of pure European descent, in any Faculty of a British Univ. Six Junior Fellowships, each of £400 p.a. more or less and usually tenable for 3 yrs., are awarded in July. An extension to a fourth year at £500 is sometimes granted. Notice of each election is published 3 mos. in advance. Applications are considered by an Advisory Board. Senior Fellowships of £700 p.a. tenable for 3 yrs. may also be awarded to persons who have already held Junior Fellowships. A Fellowship for Research in *Tropical Medicine*, value £1000 p.a. for 5 years, was awarded in March 1927. Special grants have been made from time to time for, or in aid of, particular objects of research. *Address* of Hon. Sec. to the Trust—Sir James K. Fowler, K.C.V.O., C.M.G., 35 Clarges St., Piccadilly, London, W.1.

**GROCCERS' COMPANY.** Three scholarships, £300 each, for 1 yr., renewable for 1 or 2 yrs., for inquiry into Causation of Prevalent Disease or as to means of Prevention of Premature Death. Cost of apparatus, etc., will be defrayed up to £300 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35 yrs. of age. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C.2.

**MEDICAL RESEARCH COUNCIL.** *Rockefeller Medical Fellowships.* (See C. below.)

**THE ROYAL SOCIETY.** *Foulerton Research Fund.* (See 5 above.)

## C. BRITISH AND DOMINION GOVERNMENT FUNDS

**WHITWORTH SCHOLARSHIPS** (maintained by Sir Joseph Whitworth's Foundation), awarded by the Board of Education, Whitehall, London, S.W.1. Six of £125 p.a. for 3 yrs, and two of £250 for 2 yrs.; open to British subjects under 22 and 26 years of age, who have been engaged in handicraft in a mech. engineering workshop for at least 30 months; awarded on result of examn. held in May. Applications receivable up to Jan. 15. Regns. with syllabus obtainable (2d.) from H.M. Stationery Office, Kingsway, London, W.C.2.

**COLONIAL AGRICULTURAL SCHOLARSHIPS.** Not less than 20 scholarships, usually tenable for 2 yrs., value £250 p.a., will be offered annually at any rate until the year 1933, (a) for Agr. Research, (b) for General Agr. Candidates for (a) scholarships should hold an Hons. degree in Pure Science, and for (b) a degree in Natural Sci. or Agr. Scholarship holders will spend part of their course at the Imperial Coll. of Trop. Agriculture in Trinidad, or some similar Institution. On completing

their course they may be selected for appointment to the Colonial Agricultural Service. Further particulars obtainable from the Private Secretary (Appointments) to the Secretary of State for the Colonies, 2 Richmond Terrace, Whitehall, S.W.1.

THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH (16-18 Old Queen St., London, S.W.1) maintains a number of research stations, particulars of which are given in Appendix XXIV.

The Department also makes grants to individual research workers, engaged mainly in Univs. and Colls., under the following headings: (a) Maintenance allowances to students to enable them to undergo training in research; (b) Senior Research Awards (strictly limited in number) to enable young investigators of exceptional promise and proved capacity to devote their whole time to original research; (c) Grants to investigators of acknowledged standing to enable them to develop lines of research of exceptional timeliness and promise.

During the academic year 1928-29 the numbers of grants made in these categories were (a) 142, (b) 7, (c) 31. The scheme is intended to supplement and not in any way to supersede existing provision, national or local, for post-graduate research. The grants are restricted in all cases to British subjects resident in Gt. Britain. Full particulars in the pamphlet, *Notes on Grants to Research Workers and Students*, obtainable from H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2, price 2d.

Particulars of the existing 24 Industrial Research Associations established in co-operation with the Dept. are given in Appendix XXIV.

Information as to the work of the Department will be found in the Annual Report for 1928-29, published by H.M. Stationery Office (Cmd. 3471). The report includes an appendix describing developments in the organization of industrial research in the overseas Dominions.

GRANTS FOR FISHERY RESEARCH. Researches likely to lead to results bearing on the development and improvement of fisheries are eligible for advances from the Development Fund as follows:

1. *Grants-in-aid of the general work of Independent Marine Institutions*, to aid fundamental researches forming part of the Institution's continuous programme of work.

2. *Grants for Specific Researches*. (a) Directed to definite economic ends of use to the Fishing Industry; or (b) "Free" researches.

The amount provided in the Ministry's estimates for 1929-30 for grants under 2 (a) was £1250.

The Development Commrs. will also be prepared to consider applications for additional grants for temporary assistants and for apparatus, etc., to enable members of the staff of a Marine Institution to prosecute special lines of inquiry.

Details regarding the promotion of education or research in Agr. and Fisheries is contained in the annual reports of the Development Commissioners (6A Dean's Yard, Westminster, London, S.W.1), obtainable from H.M. Stationery Office, Kingsway, London, W.C.2.

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THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1, formerly the Medical Research Committee established in 1913 under the Nat. Health Insurance Act, transferred by Royal Charter, 1920, to a Committee of the Privy Council. They apply money voted by Parliament or received from private sources for the furtherance of medical research. Grants are made to qualified investigators in respect of approved programmes of research work to be carried out in Univs., Medical Schools, Hospitals, or other institutions. Names of recipients and accounts of the schemes of research supported are given in the Council's Annual Reports published by H.M. Stationery Office. Grants may be either personal, *i.e.* to provide remuneration in respect of whole-time or part-time work devoted to particular subjects approved by the Council, or for expenses necessarily incurred in the prosecution of the approved researches. *Rockefeller Medical Fellowships* tenable in the U.S.A., or in suitable cases in other countries, are also provided for graduates in medicine or related branches of science: for 1929-30 seven were awarded.

GRANTS FOR AGRICULTURAL (AND VETERINARY) RESEARCH. For some few years past the Ministry of Agriculture and Fisheries, Whitehall, London, S.W.1, has awarded annually Research Scholarships (£200 p.a. for 3 yrs.) to assist promising students—usually honours graduates in Science of a British Univ.—to qualify as research workers. In 1929, 6 were awarded to students of Cambridge, Reading, and Edinburgh Universities. In 1921 the Ministry instituted Travelling Research Fellowships for members of staffs of aided research institutions. In 1929, 7 were awarded to members of the staffs at Aberystwyth, Bangor, Cambridge, the Rothamsted Research Station, Seale Hayne Coll., Harper Adams Coll., and the Royal Veterinary College.

In a leaflet (197) issued by the Ministry in Sept. 1920 (revised November 1925) information is given regarding some of the above-mentioned grants and generally regarding Agr. Education and Research in England and Wales. *See also* Appendix XXIV.

THE ROYAL SOCIETY. Government grants for scientific investigations. *See* B. 5 above.

NATIONAL RESEARCH COUNCIL, CANADA, Ottawa. In order to develop a corps of highly trained research men for the Univs., technical schools, industries, and tech. depts. of Dominion and Provincial Govts., the Council awards bursaries (value \$750), studentships (value \$1000), and fellowships (value \$1200) for post-graduate training in Science. For a fellowship demonstrated ability to carry on independent research is required. In the last 11 yrs. 178 persons have completed their training under these awards, and of these 144 are actively engaged in scientific or associated work in Canada. *See also* Appendix XXIV., B., I.

The Council also makes research grants for specific investigations. During the year ended March 31, 1928, 88 research grants were current. (For further information, *see* *Canada Yearbook*, 1929, pp. 928-30.)

AUSTRALIAN COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH. Under the Science and Industry Endowment Act, 1926, the Common-

wealth Government has established a capital fund, the income from which is to be used to provide assistance (a) to persons engaged in scientific research, and (b) in the training of students in scientific research. *Chief Executive Officer*, Dr. A. C. D. Rivett, M.A., D.Sc.; *Secretary*, Gerald Lightfoot, M.A., 314 Albert Street, East Melbourne, Victoria, Australia.

NEW ZEALAND DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, WELLINGTON, N.Z. Four National Research Scholarships, tenable for one year, and of a value of £180, plus £25 for apparatus, books, etc., are awarded each year to Univ. graduates proposing to specialize in some branch of industrial research.

THE RESEARCH GRANTS BOARD OF THE UNION OF SOUTH AFRICA awards scholarships to Univ. graduates (and sometimes others) who are undertaking research for the first time under the supervision of their professors, and makes grants to members of the staffs of the Universities and Museums, and others. The grants are for the purchase of apparatus, material, and literature, travelling expenses, and the cost of publication of the results of research. The Board has already made grants to 29 research students and to 160 senior research workers.

*Oversea Scholarships for Study of Commerce and Industries.* These scholarships are of the value of £250 per annum for periods of 2 or 3 yrs. Since its inception the Board has allotted 10 of these scholarships.

*Carnegie Corporation of New York.* The Board, on the invitation of the Carnegie Corporation, is assisting in the distribution and administration of funds contributed by the Corporation in support of research in South Africa. The programme is for a period of five years, and includes, in addition to grants for research purposes, travelling allowances for men and women based on the plan of the Guggenheim Fellowships of the United States of America.

#### D. LOCAL EDUCATION AUTHORITY FUNDS

THE EDUCATION COMMITTEE OF THE LANCASHIRE COUNTY COUNCIL offer Scholarships (1 or 2) of value probably not less than £100 p.a. for encouraging non-vocational education among adult students fully engaged in industry. Age limits, 22 and 40. Evidence required of having devoted leisure time to study in a Univ. Tutorial class or in other ways. The Scholarships will be tenable for a year and renewable for a year or two more. They are not intended for persons who desire to take ordinary three-year university courses in Arts, Science, Medicine, or Technology, nor for those wishing to qualify as teachers in Public Elementary Schools. The scholar will ordinarily be required to devote his whole time to study in a Univ. or other approved institution. Entry forms obtainable from the Director of Educn., County Offices, Preston.

MANCHESTER MUNICIPAL COLLEGE OF TECHNOLOGY. Research Scholarships, *see* A. above.

## E. COMMERCIAL AND INDUSTRIAL FUNDS

LONDON CHAMBER OF COMMERCE. From the *Charles R. E. Bell Fund* two scholarships, value £150 each, will be awarded in 1930 and annually until further notice for continuous residence and language study for not less than 6 months in a foreign European country. Open to approved male candidates between 16 and 23 yrs. of age whose parents are natural-born British subjects. Candidates must pass the Chamber's Senior examn. in English and pass with distinction in one foreign language. Address—Commercial Education Dept. of the L.Ch.C., Oxford Court, Cannon St., London, E.C.4.

BRADFORD CHAMBER OF COMMERCE, Commerce House, Bradford, Yorks. Endowment, £40,000, established Dec. 1924, for making grants for maintenance of British-born students (preferably Yorkshiremen) in foreign countries with the view of promoting commerce between England and such foreign countries. Grants are for 6 months' residence, and may be renewed up to 18 months. Holders will be expected to be affiliated to business firms of good standing in the countries they go to. Preference to persons intending to study Spanish or Russian. Application forms (price 1s.) obtainable from the Secretary.

THE BRITISH ELECTRICAL AND ALLIED INDUSTRIES' ASSOCN., 36 Kingsway, London, W.C.2, has granted scholarships in Engineering of £100 *plus* college fees to apprentices or students of British birth. The scheme is under revision.

The INSTITUTION OF MINING ENGINEERS awarded a "Mavor and Coulson" travelling graduate scholarship of £300 for each of the years 1926-27, 1927-28, and 1928-29.

JOHNSTON CHEMICAL SCHOLARSHIP AND PRIZE. Value £150 for 1 yr., awarded on the results of an examn. in Chem. with Crystallography or Mineralogy or Bio-chemistry, and tenable at Armstrong College, involving at least 24 hours per week throughout the session. Open to B.Sc. of any British Univ. of not more than 3 yrs.' standing from graduation. Evidence of previous training and ability to conduct an original Chem. investigation is required. Applications to Principal, Armstrong Coll., Newcastle-upon-Tyne.

THE FELLOWSHIP OF THE BRITISH EMPIRE EXHIBITION, 3 Temple Gardens, London, E.C.4. The Fellowship is an unincorporated body formed originally to help the Exhn. At the close of the Exhn., with the approval of its President, H.R.H. the Prince of Wales, the Fellowship decided to remain in existence and work for Empire trade and the better distribution of the Empire's white population. It was able to save from its revenue nearly £10,000 for a Scholarship Fund, which was largely increased by grants-in-aid from various sources. Besides various grants to Empire educational work, grants were also made for Dominion research scholars.

FREE PASSAGES TO AUSTRALIA AND NEW ZEALAND AND BACK. The six chief passenger lines serving Australia and New Zealand place eight first-class return tickets, annually, at the disposal of the

Universities Bureau for graduates of the Univs. of Great Britain and Ireland who wish to visit these Dominions (*a*) for the purpose of holding temporary teaching-posts, or (*b*) for the purpose of prosecuting research work into problems connected with their development and resources. Application must be made to the Bureau by the authorities of the graduate's Univ.

CITY OF LONDON VACATION COURSE SCHOLARSHIP. £300 to enable a teacher, actively engaged in teaching work in any part of Great Britain or Ireland, to proceed to America for some months in order to conduct research work in the field of education of children between 6 and 14. Address the Secy., City of London Vacation Course, Montague House, Russell Sq., W.C.1.

## F. FOREIGN TRUST AND FOUNDATION FUNDS

1. International.
2. Belgium.
3. France.
4. Germany.
5. Holland.
6. Sweden.
7. United States of America.

### I. INTERNATIONAL FELLOWSHIPS, ETC.

THE INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN awards Travelling Fellowships for women graduates of all countries, available for a year's research work in some country other than that of the holder. A research fellowship in Science will be awarded in 1930. Value £250.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN offers an International Fellowship, value \$1500, to enable the holder to carry on a yr.'s research in some country other than her own for the academic year 1930-31. Open to all members of the Intern. Fedn. of Univ. Women. Further information from the Secy., British Federation of University Women, Crosby Hall, Cheyne Walk, S.W.3; or from the American Association of University Women, 1634 I Street, Washington, D.C.

THE CANADIAN FEDERATION OF UNIVERSITY WOMEN has founded a Scholarship enabling a woman graduate of a Canadian Univ. to study at a Univ. of any other country represented in the Intern. Federation.

THE GERMAN FEDERATION OF UNIVERSITY WOMEN offers a Fellowship for the year 1930-31 of 2000 marks for research in Arts. The Fellowship is tenable in Germany, and is open to all members of the Intern. Federation.

THE SPANISH FEDERATION OF UNIVERSITY WOMEN offers an annual Fellowship of 4000 pesetas tenable for study in Spain, and open to members of the Intern. Federation.

Information about all the above obtainable from the Secy., Inter-

national Federation of University Women, Crosby Hall, Cheyne Walk, London, S.W.3.

## 2. BELGIUM

FONDATION GEORGE MONTEFIORE offers triennially a prize, value 22,000 francs, "au meilleur travail original présenté sur l'avancement scientifique et sur les progrès dans les applications techniques de l'électricité dans tous les domaines, à l'exclusion des ouvrages de vulgarisation ou de simple compilation." Secrétaire-archiviste de la Fondation George Montefiore à l'hôtel de l'Association, rue Saint-Gilles 31, Liège (Belgique).

FONDATION UNIVERSITAIRE, 11 rue d'Egmont, Brussels, founded in 1920 with a capital of 55 million francs derived from the unexpended balance of the funds of the Commission for Relief in Belgium, aims (1) at helping impecunious young Belgians to take courses in Institutions for higher education and (2) at developing scientific production in Belgium. It makes loans for the first purpose and grants and subsidies for the second. In the year 1927-28 its loans for University study amounted to 1,084,750 francs, its subsidies to 983,420 francs. The subsidies included grants for study to be carried on, in European Univs., for training in scientific research, for research workers, and for scientific publications. Grants for study in American Univs. were made to 10 Belgian graduates, and grants for study in Belgian Univs. to 3 Americans. The Foundation arranges exchange visits of Professors. There is a club-house (with bedrooms) at 11 rue d'Egmont for Belgian Univ. Professors, open also to foreign professors invited by members.

## 3. FRANCE

"LA BIENVENUE FRANÇAISE," 19 Rue du Four, Paris, founded 1921, offers each scholastic year hospitality at the "Fondation Thors," Castle of Prunay, Louveciennes, Seine-et-Oise, to one student of science of each of the following nationalities: French, British, Belgian, Italian, Czecho-Slovakian, American, Spanish.

OFFICE NATIONAL DES UNIVERSITÉS ET ÉCOLES FRANÇAISES, 96 Bd. Raspail, Paris (6<sup>e</sup>). A scholarship of 8000 frs. is open to Australians for undergraduate or post-graduate work.

PRIX HOLLANDAIS, 10,000 fr., and PRIX D'AULT DU MESNIL, 1800 fr., for work in physical or prehistoric anthropology, triennially, to be awarded in 1930. Institut International d'Anthropologie, 15 rue de l'École de Médecine, Paris, vi.

## 4. GERMANY

THE JOSEFINE AND EDUARD VON PORTHEIM FOUNDATION. This fund has been established by Geheimer Hofrat Prof. Dr. Victor Goldschmidt in memory of his wife's family at the University of Heidelberg

to enable English University graduates to study at the University of Heidelberg for a semester or longer. The awards are made by the Universities Bureau of the British Empire, 50 Russell Square, London, W.C.1 (from which further particulars can be obtained) on the recommendation of the Vice-Chancellors and Principals of the Universities and University Colleges of Great Britain and Ireland.

### 5. HOLLAND

ACADÉMIE DE DROIT INTERNATIONAL DE LA HAYE. A certain number of scholarships are awarded each yr. to persons attending the Académie who have written essays, reviews, or notable books on some branch of international law. Applications, accompanied by a copy of a scientific work published by the candidate, together with duly certified copies of Univ. or other diplomas, must be received by the President of the Curatorium before Mar. 31. Awards are made known on or before May 31. Particulars are obtainable from the Ministries of Public Education or professors of international law in the various countries.

VISSER INTERNATIONAL LAW PRIZE (triennial). Administered by Leyden Univ. (Legatum Visserianum). Maximum, 5000 guilders. Next competition, May 1930; subject—Unlawful Acts of States; language—Dutch, English, French, or German.

### 6. SWEDEN

NOBEL PRIZES, founded by Alfred Nobel (d. 1896), awarded for contributions to the common good by workers in (a) *Physics*, (b) *Chemistry*, (c) *Medicine or Physiology*, (d) *Literature*, (e) *the Preservation of Peace*. The prizes, worth from Kr. 115,000 to Kr. 172,000 (1929) each, are awarded for (a) and (b) by the Swedish Academy of Science, for (c) by the Stockholm Faculty of Medicine, for (d) by the Swedish Academy of Literature, and for (e) by a committee elected by the Norwegian Storting. Among the categories of persons qualified to propose candidates for prize (e) are Univ. Professors of Political Science and Law, of History, and of Philosophy. Particulars can be obtained from Nobelstiftelsens Styrelse, Sturegatan 14, Stockholm, Sweden. Among prize-winners of past years the following have a special interest for English-speaking students:

*Physics*: 1904, Lord Rayleigh; 1906, J. J. Thomson; 1907, A. A. Michelson; 1915, W. H. Bragg and W. L. Bragg; 1917, Ch. G. Barkla; 1923, R. A. Millikan; 1928, O. W. Richardson.

*Chemistry*: 1904, Sir Wm. Ramsay; 1908, E. Rutherford; 1914, T. W. Richards; 1922, F. Soddy, F. W. Aston; 1929, A. Harden.

*Medicine or Physiology*: 1902, Sir Ronald Ross; 1912, Alexis Carrel; 1922, A. V. Hill; 1923, F. G. Banting and J. J. R. Macleod; 1929, Sir F. Gowland Hopkins.

*Literature*: 1907, Rudyard Kipling; 1913, Rabindranath Tagore; 1923, W. B. Yeats; 1926, G. B. Shaw.

*The Preservation of Peace*: 1903, Sir W. R. Cremer; 1906, Theodore Roosevelt; 1912, Elihu Root; 1919, W. Wilson; 1926, Sir Austen Chamberlain and General Ch. G. Dawes; 1927, A. H. Compton and C. T. R. Wilson.

## 7. UNITED STATES OF AMERICA

THE INSTITUTE OF INTERNATIONAL EDUCATION, 2 West 45th Street, New York, has published a pamphlet entitled, *Fellowships and Scholarships open to Foreign Students for Study in the United States*, 3rd edn., 1929, which gives a very full list of such aids to advanced study. They are classified as follows: (i.) Unrestricted as to subject or nationality of holder; (ii.) for study in prescribed subjects, unrestricted as to nationality, and (iii.) for students from prescribed places.

In class (i.) there are more than 120 Fellowships for advanced study and research offered by 19 different Universities, and varying in value from free tuition to \$1500 a year. A number of Colleges and Universities (27) also offer student assistantships in various subjects open to qualified students of foreign birth. In class (ii.) there are over 120 Fellowships principally for research offered by the chief Universities and other learned bodies. In class (iii.) Fellowships for Research are offered to *Canadian* students by the Canadian Federation of Univ. Women, the National Research Council of the U.S.A. and by the Pacific Coast Gas Association; and Fellowships for advanced study and research are offered to students in *Great Britain* by the American Association of Univ. Women, by the Commonwealth Fund, and by the Rockefeller Foundation. The list from which the above information is taken may be consulted at the Universities Bureau or at the American University Union, 50 Russell Sq., London, W.C.1.

Nearly all the American Univs. offer each year scholarships and junior fellowships of from \$200 to \$800, which are open to foreign students for work which would be described as undergraduate in this country. Most American Univs. close their scholarship lists about March 1. The principal foundations offering Fellowships to British subjects for which application can be made in this country are briefly described below:

CHOATE MEMORIAL FELLOWSHIP, \$2000, of the Harvard Club of New York City, 27 West 44th Street. Awarded on nomination and recommendation of the Vice-Chancellor of Cambridge to a British subject coming from Camb. to study in any dept. of Harvard Univ. Failing a candidate from Camb. the Vice-Chancellor may select and appoint a candidate from any other Univ. in the U.K. The Choate Fellow has a right to a room in College free of charge.

COMMONWEALTH FUND FELLOWSHIPS, established 1925. Twenty awarded annually. Value about £600 each p.a., tenable ordinarily for 2 yrs. in one of the 26 institutions belonging to the Association of American Universities (see list in Appendix XXVI.). Candidates (who must be unmarried and not over 30 years of age) are nominated by universities in Great Britain and Ireland, and the final selections made by a Com-

mittee of Award, of which H.R.H. the Prince of Wales is Honorary Chairman, and Sir Walter R. Buchanan-Riddell, Principal of Hertford College, Oxford, Chairman. Among other conditions of tenure is a requirement that at least 3 months must be spent in travel in the U.S.A. at the close of the first year of study. Address of Committee—35 Portman Square, London, W.1.

ENGLISH-SPEAKING UNION'S SCHOLARSHIPS. For British women teachers. *Page Travelling Scholarship*, £50 and complete hospitality in America during summer vacation. *Chautauqua Scholarships* (2), for the summer school, July and August, in the State of New York; covering cost of lectures and complete hospitality for 6 weeks. Applications receivable up to Feb. 1 by the E.S.U., Dartmouth House, 37 Charles St., Berkeley Sq., London, W.1.

HENRY P. DAVISON SCHOLARSHIPS (6), \$1500 *plus* tuition fees (about £50) tenable at Harvard, Yale, or Princeton, for one year. Open to Oxford and Cambridge undergraduates and B.A., unmarried. Scholars are chosen on basis of character, scholarship, and fitness to represent the Univ. No examn. Secretaries: C. H. E. Smyth, Corpus Christi College, Cambridge; A. C. Jacobs, Oriel College, Oxford.

JANE ELIZA PROCTER VISITING FELLOWSHIPS. Three of \$2500 each annually, for 2 British scholars (to be nominated by the Univs. of Oxford and Cambridge) and 1 French, tenable for one year, with possibility of renewal, in Princeton Graduate College, for independent advanced study and investigation in purely liberal arts and sciences, exclusive of professional, technical, or commercial subjects; open only to unmarried young men holding a degree in distinctively liberal studies and of reasonably good health, high character, and exceptional scholarly power. Applications should be made directly to the Dean of the Graduate School, Princeton, New Jersey, U.S.A., before March 1.

RIGGS FOUNDATION under the auspices of the English-Speaking Union. Fellowships for British graduates. \$1200 each, tenable in the Univ. of Michigan, one year. Preference to students of History and Economics. Secretary to the Committee—The Director, American University Union, 50 Russell Sq., London, W.C.1.

ROCKEFELLER FOUNDATION FELLOWSHIPS for research in the social sciences, tenable in U.S.A., France, Germany, Italy, and certain other countries. Intended primarily for graduates, men or women, who have begun research and may be expected to produce important work in econ., sociol., polit. sci., hist., psychol., or anthropol., or, in certain cases, philos., geog., law, or education. The regular stipend is \$1800 *plus* travelling expenses (in America) and univ. fees. Fellowships may be given for 1 or 2 yrs. *Applications are not invited from candidates.* The procedure preferred is that the responsible academic or other authority, who knows the candidate's work and wishes to nominate him, should write to the Foundation's representative for Gt. Britain and Ireland, N. F. Hall, University College, London, W.C.1.

ROSE SIDGWICK MEMORIAL FELLOWSHIP. Established by Americans in memory of a member of the British Educational Mission which visited

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the U.S.A. in 1918, in recognition of her service in the cause of Anglo-American friendship. Administered by the American Assocn. of University Women. Value \$2000 (providing tuition and residence during term for 1 yr., and about \$400 in cash towards travelling expenses and incidental fees); tenable at any approved College or Univ. in the U.S.A. Open to British women (preferably from 25 to 35 years of age) of graduate standing. Next award in 1930. Particulars obtainable from the Secy., British Federation of Univ. Women, Crosby Hall, Cheyne Walk, London, S.W.3.

UNION THEOLOGICAL SEMINARY, N.Y. CITY. Fellowship in Theol., \$1200, for advanced graduate work. Open to theol. students of high grade of England, Wales, and Scotland of any ecclesiastical communion who have completed a regular theol. course. Applications receivable by the Rev. the Principal, Mansfield College, Oxford, or Prof. G. S. Duncan, St. Mary's College, St. Andrews. Latest date, May 31.

### G. MISCELLANEOUS

THE BRITISH FEDERATION OF UNIVERSITY WOMEN. Two residential scholarships at Crosby Hall of the value of £50 each, for the purpose of research work in London, were offered by the Directors of Crosby Hall, and awarded by the British Federation of University Women for the academic year 1929-30. It is hoped that such scholarships will be available in future years. Further particulars from the Secretary, British Federation of University Women, Crosby Hall, Cheyne Walk, S.W.3.

THE CENTRAL EMPLOYMENT BUREAU FOR WOMEN AND STUDENTS' CAREERS ASSOCIATION (incorporated), 54 Russell Square, London, W.C.1, has established a loan fund to help educated women who are without the means of training for professional work. No interest is charged. For University Education, Research Work, or technical Training of any kind loans are available. Amount of Fund, £8000.

KITCHENER SCHOLARSHIPS for Study and Training. Minimum age, 17, maximum, 20. Open to sons of officers and men of H.M. Forces, with preference to sons of deceased or disabled officers and men. Value and length of tenure will in each case be such as to enable successful candidates to undertake a complete course of advanced education at any Univ. or other approved institution. Scholarships are offered annually in Jan., conditions being advertised about the middle of the month. The number awarded in 1929 was 112.

Full information obtainable from the Secy., Lord Kitchener National Memorial Fund, 34 Norfolk St., Strand, London, W.C.2.

The two bodies referred to below do not make grants to individuals for research, but they support and promote research in their respective fields by making grants to existing research organizations.

THE EMPIRE MARKETING BOARD, 2 Queen Anne's Gate Bldgs., Dartmouth St., London, S.W.1, was set up in 1926 to advise the Secretary

of State for Dominion Affairs in the administration of an annual Parliamentary Vote for the furtherance of the marketing of Empire produce (including home agricultural produce) in the United Kingdom. The main activities of the Board are in the fields of scientific research, economic investigation, and publicity. Many grants for scientific research have been made to institutions both at home and overseas.

THE BRITISH EMPIRE CANCER CAMPAIGN was founded in May 1923 to co-ordinate and support research on cancer throughout the Empire. The governing body includes representatives from most of the principal hospitals with cancer research depts. Chairman, The Most Hon. The Marquess of Reading, P.C., G.C.B., G.C.S.I., etc. The Scientific and Advisory Committee is appointed jointly by the Royal Society, the Medical Research Council and the Campaign. The Radiology Committee of the Medical Research Council, with representatives of the Campaign, acts jointly for both bodies. *Address*—Sir Richard Garton, G.B.E., Hon. Secy., 12 Grosvenor Crescent, Hyde Park Corner, London, S.W.1.

## XXIV

### CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

#### A. IN GREAT BRITAIN

##### CENTRES OF SCIENTIFIC RESEARCH

##### I. Botany and Agriculture.

- (a) Soils and Crops (England and Wales).  
(Scotland).  
(Northern Ireland).
- (b) Horticulture.
- (c) Animal Pathology (England and Wales).  
(Scotland).  
(Northern Ireland).
- (d) Animal Husbandry (England and Wales).  
(Scotland).  
(Northern Ireland).
- (e) Agricultural Economics.
- (f) Food Preservation and Transport.
- (g) Agricultural Engineering.

- II. Fisheries and Preservation of Fish.
- III. Industrial.
- IV. Pure Science.
- V. Medical.

CENTRES OF SCIENTIFIC INFORMATION

- VI. Botany and Agriculture.
- VII. Industrial (England and Wales).  
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- VIII. Pure Science.
- IX. Medical.

B. IN THE DOMINIONS, DEPENDENCIES AND COLONIES

CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

- I. Canada.
- II. Australia.
- III. New Zealand.
- IV. South Africa.
- V. Tanganyika Territory.
- VI. India.
- VII. Ceylon.
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A. IN GREAT BRITAIN

CENTRES OF SCIENTIFIC RESEARCH

I. BOTANY AND AGRICULTURE.

Some description is given under this head of the principal centres in the U.K. for advanced study and research in Agricultural Science and the cognate pure sciences, but much fuller information will be found in a brochure published by the Ministry of Agriculture and Fisheries at the instance of the Imperial Agricultural Research Conference, 1927, entitled *Facilities for Advanced Study and Research in Agricultural Science and Cognate Pure Sciences in the United Kingdom*. 1929. Price 1s. net. Post free.

Persons wishing to avail themselves of the resources of any of the following centres (a) 1-9, (b), (c) 2-5, (d) 1-4, (e), (f) 2, and (g) should call in the first instance for suggestions and advice on the Ministry of Agriculture and Fisheries, Whitehall, London, S.W.1.

(a) *Soils and Crops (England and Wales)*

1. ROYAL BOTANIC GARDENS, Kew, afford to botanists, especially from the Colonies, facilities for carrying out scientific investigations in the Library, Herbarium, Economic Museums, and the Jodrell Laboratory. The principal work carried out is systematic and economic botany within the British Empire. Plants of economic importance are grown in the gardens and sent out to various parts of the Empire. Information is also supplied on botanical matters to all parts of the Empire. Research work is carried out on matters relating to Economic, Systematic, and Phytogeographical Botany and also in Mycology. Botanists should apply to the Director for permission to work in the Herbarium or in the Laboratory.

2. THE NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, Huntingdon Road, Cambridge, was established in 1919 to improve the yield and quality of farm crops by discovering and encouraging the use of better varieties and better seeds. The two main branches of the work are (a) Crop Improvement, covering field trials of farm crops at six regular sub-stations in England and Wales, and occasionally at other centres, the distribution of seed of improved varieties, and at the Potato Testing Station, Ormskirk, the official trials of potatoes for immunity from wart disease, virus disease investigations, and general potato trials; (b) Official Seed Testing Station for England and Wales at Cambridge, which makes laboratory tests of the purity and germination of seed samples, and undertakes research work on seed problems. In approved cases facilities would be given for post-graduate research. Reports of work done are issued in the Institute's *Journal*. Periodical meetings of Fellows of the Inst. are held for discussion, etc. A course and examn. in the theory and practice of seed testing is usually held each summer; fee for course (four to five weeks), £5 : 5s. ; for examn., £1 : 1s.

3. THE ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts, founded in 1843, is controlled by the Lawes Agricultural Trust (Endowment Fund, £100,000), with which the Incorporated Society for Extending the Rothamsted Experiments (founded 1904) co-operates. Annual grants are received from the Ministry of Agriculture, which also gives capital funds for an approved purpose. The Station includes extensive laboratories, glasshouses for the study of plant nutrition and soil problems and plant pathology, an area of 300 acres of land for the purpose of farm and experimental fields, and a library of 15,000 volumes.

The WOBURN EXPERIMENTAL STATION now forms part of the Rothamsted organization; it consists of 138 acres of land, mainly light soil, Laboratory, Pot Culture, and Meteorological Stations.

In May 1929 as a result of the Imperial Agricultural Research Conference held in London in 1927 the IMPERIAL BUREAU OF SOIL SCIENCE was set up at Rothamsted as a central clearing house of information on soil problems throughout the Empire.

Provision is made for post-graduate research work, and for studies

by agriculturists and others on leave from Agricultural Departments in the Empire.

4. **RESEARCH INSTITUTE IN PLANT PHYSIOLOGY**, Imperial College of Science and Technology, South Kensington, London, S.W.7. The work of the Institute is mainly directed to the elucidation of the plant physiological processes responsible for crop yield in the field and under glass. It works closely with the Research Institutes at Rothamsted and East Malling. It is available for research in general plant physiology, chemical physiology, and the physiology of fungi. The laboratories are well equipped on the chemical and electrical sides and for experiments on the growth of plants under artificial light and controlled conditions of temperature. Requests for admission, together with a full account of academic qualifications and training, should be sent to the Director.

5. **PLANT BREEDING INSTITUTE**, Cambridge. The main work of the Institute is connected with the problems of breeding improved types of the plants cultivated as farm crops in this country. Up to the present most progress has been made with cereal crops, but preliminary work on the possibilities of improving many other crops is being carried out, including brassicæ and the raising of seed potatoes free from various virus diseases. There are also facilities for research work in methods for testing the yield capacity of growths; factors affecting yield; winter hardiness in barley and oats; the quality of wheat for bread, biscuit, and pudding making; disease resistance, etc. The experiment grounds are equipped with bird-proof cages for the protection of the more important hybrid cereals, with greenhouses, storage rooms, and a small machine room.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the **IMPERIAL BUREAU OF PLANT GENETICS**, for crops other than herbage plants, has been established at the Institute for the collection and dissemination of information on this subject throughout the Empire.

6. **WELSH PLANT BREEDING STATION**, University College, Aberystwyth. This Station conducts researches related to plant breeding especially for farmers in high rainfall districts, at high elevations, and generally under conditions of low fertility. Chief attention is therefore given to herbage plants. Oats is the only ordinary arable crop receiving serious attention. The station is well equipped for research in the foregoing directions. There is a 2-yrs. course for graduates studying for the Ph.D. degree. Members of staffs of research or teaching institutions and of the Govt. Departments of Agriculture are admitted for shorter periods. Applications should be addressed to the Director, Agricultural Buildings, Alexandra Road, Aberystwyth, as long as possible in advance of proposed entry.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the **IMPERIAL BUREAU OF PLANT GENETICS**, for herbage plants, has been established at the

Institute for the collection and dissemination of information on this subject throughout the Empire.

Besides the Agricultural Depts. of the Univs. in Gt. Britain and N. Ireland, and agricultural colls. which are constituent parts of Universities, such as the South-Eastern Agricultural College, Wye (Univ. of London), the following independent colls. undertake research work.

7. HARPER ADAMS AGRICULTURAL COLLEGE, Newport, Salop, provides facilities for research workers in Agriculture, or in Chemistry, Mycology, Entomology or Economics in their application to Agriculture. THE NATIONAL INSTITUTE OF POULTRY HUSBANDRY is located at the College, and provides extensive facilities for poultry research. Reports are published in the form of separate bulletins as well as in journals, such as the *Journal of Agricultural Science*, *Bio-Chemical Journal*, and *Annals of Applied Biology*.

8. MIDLAND AGRICULTURAL COLLEGE, Sutton Bonnington, Loughborough, Leicestershire. Visitors admitted for research work in the Chemistry Laboratories, or in dairying or costings, at 63s. per week, including board and lodging. Reports on experiments and small matters of research are issued from time to time.

9. SEALE-HAYNE AGRICULTURAL COLLEGE, Newton Abbot, Devon. On the College Estate of 339 acres, a commercial farm of 250 acres is maintained, as well as a demonstration small-holding of 25 acres. There is a Forest Nursery, Cider stock-raising plot,  $\frac{1}{2}$  an acre of pyrethrum, grown experimentally for insecticidal purposes, and breeding trials on Roscoff broccoli. Research work is carried out in connexion with insect and fungus pests, soil problems, Economic investigations, and Dairy bacteriology. The college farm specializes in the production of Certified milk. Experts from overseas proposing to visit the College will be welcome, and arrangements can be made for them to work there temporarily. Results of experiments are published from time to time in pamphlets.

### *Soils and Crops (Scotland)*

Persons wishing to avail themselves of the resources of any of the following centres (a) 10-15, (c) 6, (d) 5-7, should call in the first instance for suggestions and advice on the Department of Agriculture for Scotland, Queen St., Edinburgh.

10. SOILS AND DRAINAGE DEPARTMENT, NORTH OF SCOTLAND COLLEGE OF AGRICULTURE AND UNIVERSITY OF ABERDEEN, Marischal College, Aberdeen. The Dept. is specially concerned with research into the properties and fertilization of soils and the losses of manured and crop soils from drainage. Scottish conditions are particularly kept in view. There is a course for the Ph.D. degree open to graduates of any approved Univ. usually covering 3 yrs. Applicants should communicate with the Director of Studies and Research, Agricultural Dept., Marischal College, Aberdeen.

11. THE SCOTTISH SOCIETY FOR RESEARCH IN PLANT BREEDING (Station at Corstorphine, Midlothian) was established to promote the

discovery and the creation of improved races of crop plants adapted to Scottish conditions. Applications from voluntary workers to the Director of Research will receive consideration.

12. SEED TESTING AND PLANT REGISTRATION STATION (Board of Agriculture for Scotland), East Craigs, Craigs Road, Corstorphine, Edinburgh. Investigations are carried out in analyses of crops and grasses and clovers, especially the authentic character of wild white clover; also immunity testing of potatoes and their distinguishing characters. Overseas students may participate in the work of the Station.

13. EAST OF SCOTLAND COLLEGE OF AGRICULTURE, Edinburgh. Facilities are provided for post-graduate research work in soil science, agricultural bacteriology, and agricultural botany. Workers possessing the requisite qualifications may be entered for the Ph.D. degree of Edinburgh University.

14. NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, 41½ Union St., Aberdeen. Experiments on farm crops on the college farm at Craibstone, near Aberdeen; research work in soils and drainage and in entomology; results of experiments and research published in bulletins.

15. THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, 6 Blythswood Square, Glasgow. Applications by experts employed by the Government or Industrial Corporations in the British Empire overseas for permission to visit the College or for copies of bulletins will receive attention.

### *Soils and Crops (Northern Ireland)*

Persons wishing to avail themselves of the resources of any of the following centres (a) 16-18, (c) 7, (d) 8-11, should call in the first instance for suggestions and advice on the Ministry of Agriculture for Northern Ireland, Belfast; and of centre (f) on the Dept. of Scientific and Industrial Research, 16-18 Old Queen St., London, S.W.1.

16. CHEMICAL [AND ANIMAL NUTRITION] DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. Research work falls into two main sections: (i.) Animal Nutrition (*see* (d) 8 below); (ii.) Soil and fertilization problems. There is an Agricultural Research Station for crops and stock with a farm of 500 acres at Hillsborough, Co. Down.

17. PLANT BREEDING RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Stormont, Strandtown, nr. Belfast. The Division is concerned with the production of improved varieties of the agricultural crops of N. Ireland. Hitherto most time has been devoted to oats.

18. SEED-TESTING AND PLANT DISEASES DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. The chief investigations of this Division relate to potato and flax diseases, fruit diseases and pests, gooseberries (American gooseberry mildew), forestry diseases, and celery leaf spot.

(b) *Horticulture*

1. LONG ASHTON FRUIT RESEARCH STATION (Univ. of Bristol), Long Ashton, nr. Bristol. The work of the Station is the investigation of problems relating to (i.) fruit culture; (ii.) diseases of horticultural crops, especially fruit crops; (iii.) fruit preservation and production, incl. cider making and the storage of fruits; (iv.) willow cultivation and the utilization of osiers. The Station is also an advisory centre on these subjects. Adjoining the Station is a farm of c. 257 acres, about one-half of which is suitable for experimental work. At the associated FRUIT AND VEGETABLE PRESERVATION RESEARCH STATION, Chipping Campden, Glos., the main research is the preservation of fruits and vegetables, incl. canning. Intending workers should apply to the Director, stating subject of work proposed and probable length of study.

2. EAST MALLING RESEARCH STATION, Kent. (The Kent Incorporated Society for Promoting Experiments in Horticulture.) Research work is being carried out in pomology, hop culture, plant pathology, physiology, bio-chemistry, and entomology. From time to time facilities are offered to graduate students for gaining experience in research in these problems, both in the field and laboratories. Applications, with full details of qualifications and subjects of study proposed, to be addressed to the Director.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF FRUIT PRODUCTION has been established for the collection and dissemination of information on this subject throughout the Empire.

3. HORTICULTURAL RESEARCH STATION (Camb. Univ.), University Farm, Huntingdon Road, Cambridge. The Station is controlled by the Director of the Plant Breeding Institute and a committee of fruit and vegetable growers. The chief investigations at present are the breeding of improved varieties of apples, plums, pears, and strawberries, and of onions, various brassicæ and parsnips; also a comprehensive series of investigations on the physics of spraying fluids.

4. EXPERIMENTAL AND RESEARCH STATION, Turner's Hill, Cheshunt, Herts. In the centre of the Lea Valley Glasshouse district. The aim of the Station is to investigate the many problems connected with the commercial cultivation of glasshouse crops. Advisory work is an important feature. Research workers are admitted to the laboratories for short periods when space is available. Reports are widely circulated.

5. JOHN INNES HORTICULTURAL INSTITUTION, Mostyn Road, Merton, London, S.W.19, promotes researches in various subjects connected with horticulture, especially plant-breeding, cytology, and mycology. Qualified persons desirous of conducting work coming within the scope of the Institution are given facilities freely.

6. HORTICULTURAL COLLEGE FOR WOMEN, Swanley, Kent, conducts investigations into insect pests and fungus diseases of cultivated garden plants. Students on leave from other countries are welcome.

(c) *Animal Pathology (England and Wales)*

1. THE BROWN ANIMAL SANATORY INSTITUTION, 149 Wandsworth Road, London, S.W.8. (See p. 107.)

2. RESEARCH INSTITUTE IN ANIMAL PATHOLOGY (Royal Veterinary College, London), Great College St., Camden Town, N.W.1. The aim of the Institute is to extend knowledge regarding the diseases of domesticated animals. The principal work undertaken hitherto has been epizootic abortion in cows, abortion in mares, joint-ill in foals, Johne's Disease, mastitis in cows, parasitic gastritis in ruminants, and Quarter Evil. Visitors from overseas desiring to do research work in animal pathology are welcome. The present research in the Institute is chiefly bacteriological. There is accommodation for two workers from overseas, but special research grants would be required for the purchase of experimental animals or expensive apparatus. Applications must be made to the Director of the Institute before Feb. 15 of the year in which work is to begin.

3. DEPARTMENT OF ANIMAL PATHOLOGY (Camb. Univ.), School of Pathology, Cambridge. It has a field station in Milton Road, Cambridge. The Dept. is working almost entirely on the diseases of farm animals. Special attention has been given to a variety of sheep diseases. Arrangements are made for courses of advanced study and research for Colonial veterinary officers and others who may desire them. Provision is also made for visitors to carry out specific investigations.

4. VETERINARY LABORATORY (Ministry of Agriculture and Fisheries), New Haw, Weybridge, Surrey. The Foot and Mouth Disease Station for experiments with large animals is at Pirbright, some 10 miles from New Haw. The aim of this Laboratory is to apply laboratory methods to the diagnosis of disease and to conduct research into problems of ætiology and prophylaxis. The New Haw laboratory has excellent facilities for experimental work on the larger farm animals. A limited number of post-graduate workers can be received.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927 the IMPERIAL BUREAU OF ANIMAL HEALTH for the collection and dissemination of information on this subject throughout the Empire has been established at the Laboratory.

5. INSTITUTE OF AGRICULTURAL PARASITOLOGY (London School of Hygiene and Tropical Medicine), Winches Farm, Hatfield Road, St. Albans, Herts. The Institute specializes in the morphology, life histories, and bionomics of the internal parasites of domesticated animals, farm stock, poultry, and fur animals, and of the allied eel worms which infest plants of economic importance. Facilities for advanced study and research are available for overseas workers in the various depts. of the London School of Hyg. and Trop. Med. Applications for detailed information should be made to the Secretary, London School of Hyg. and Trop. Med., Malet Street, London, W.C.1.

In accordance with the recommendation of the Imperial Agricultural

Research Conference held in London in 1927 the IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY for the collection and dissemination of information on this subject throughout the Empire has been established at the Institute.

### *Animal Pathology (Scotland)*

6. ANIMAL DISEASES RESEARCH ASSOCIATION, Moredun, Gilmerton, Edinburgh, and a suite of rooms at the Royal (Dick) Veterinary College. So far diseases of sheep have been given first consideration. Grass disease in horses is also being investigated, and it is hoped in future to give more time to cattle diseases. Visiting workers are expected to defray the cost involved in any special work.

### *Animal Pathology (Northern Ireland)*

7. ANIMAL DISEASES DIVISION (Ministry of Agriculture, N. Ireland), Stormont, Strandtown, nr. Belfast. Research is carried on into sterility in cattle, anti-tuberculosis vaccination, pneumonia in pigs, and diseases of poultry and sheep.

### *(d) Animal Husbandry (England and Wales)*

1. ANIMAL NUTRITION RESEARCH INSTITUTE (Camb. Univ.), School of Agriculture, Downing Street, Cambridge. There is a branch laboratory at the Field Laboratories, Milton Road. The work of the Institute falls under two main heads: (i.) nutrition proper; (ii.) the physiology of reproduction and growth. Members of the staffs of teaching institutions or of Govt. Depts. of Agriculture are admitted for short courses. The full course covers two or three yrs. Applications should be directed to the Secretary, School of Agriculture, Cambridge, as long as possible before proposed arrival.

2. NATIONAL INSTITUTE OF POULTRY HUSBANDRY (Harper Adams Agricultural College, Newport, Salop. (See (a) 7 above.)) The Institute carries out large scale experimental work on the breeding, feeding, management, and housing of poultry and other small live stock.

3. NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING, Shinfield Manor House, Reading. Church Farm, the experimental farm of the Institute, is close by. The Institute deals with all questions relating to the production, handling and distribution of milk and the manufacture of dairy products. There is a 2- or 3-years' course for post-graduate workers. Voluntary workers may be admitted for shorter periods. Applications for admission should be addressed to the Director of the Institute, stating the dept. in which work is proposed and the probable length of stay.

4. SMALL ANIMAL BREEDING RESEARCH INSTITUTE (Camb. Univ.), School of Agriculture, Downing Street, Cambridge. Field work at Univ. Experimental Farm, Huntingdon Rd., Cambridge. The work includes genetical problems relating to rabbits and poultry.

*Animal Husbandry (Scotland)*

5. ROWETT RESEARCH INSTITUTE, Bucksburn, Aberdeen. The Institute is devoted to research in animal nutrition. There is also an experimental stock farm. Work has been carried out in, among other things: (i.) the mineral content of pastures; (ii.) iodine; (iii.) nutritive properties of milk; (iv.) human dietetics; (v.) the mineral content of feeding stuffs. Post-graduate research workers are admitted.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF ANIMAL NUTRITION has been established in connexion with the Institute for the collection and dissemination of information throughout the Empire bearing on that subject.

6. HANNAH DAIRY RESEARCH INSTITUTE, Auchincruive, nr. Ayr. The Institute, which was founded last year, is contiguous to the West of Scotland Agricultural College.

7. ANIMAL BREEDING RESEARCH DEPARTMENT (Edinburgh Univ.), King's Buildings, West Mains Road, Edinburgh. A special building for this Dept. is in course of erection. The Dept. aims at securing and broadcasting knowledge relating to the physiology of reproduction and of inheritance with special reference to animals of economic importance. Accommodation is provided for graduates proceeding to a higher degree at Edinburgh Univ. and for officers of the Colonial Agricultural and Veterinary services. Senior research workers may work at their own problems. Applications for admission should be made to the Secretary, Animal Breeding Research Dept., Edinburgh Univ.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF ANIMAL GENETICS was established at the Animal Breeding Research Dept. for the collection and dissemination of information throughout the Empire bearing on this subject.

*Animal Husbandry (Northern Ireland)*

8. [CHEMICAL AND] ANIMAL NUTRITION DIVISION (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. (See (a) 16 above.) The Division is working on the production of "baby beef," milk production, the rearing of calves for "baby beef" production, the feeding of pigs, and, in collaboration with the Rowett Research Institute, on the effect of feeding on birth-rate, mortality and growth of lambs. Experimental work is also going on in regard to poultry in collaboration with the Rowett Research Institute and the Poultry Depts. of the Scottish Agricultural Colleges.

9. [CROP AND] ANIMAL HUSBANDRY RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Agricultural Research Institute of N. Ireland, Hillsborough, Co. Down.

10. AGRICULTURAL RESEARCH INSTITUTE (Ministry of Agriculture, N. Ireland), Hillsborough, Co. Down. The station for research in poultry nutrition is in course of erection. The main work of the station, which is being equipped, will be devoted to animal nutrition.

II. DAIRY BACTERIOLOGY DIVISION (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. This Division is in its initial stages. The main work falls under two heads: (i.) Graded milk; (ii.) Creameries. The Division will devise methods for the improvement and control by creameries of butter, and a uniform standard quality. It also affords advisory services in connexion with bacteriological problems.

### (e) *Agricultural Economics*

AGRICULTURAL ECONOMICS RESEARCH INSTITUTE (Oxford Univ.), Parks Road, Oxford. The work of the Institute falls under three principal heads: (i.) Farm Management Studies; (ii.) Rural Life Studies; (iii.) Miscellaneous Studies. These last are largely undertaken by research scholars attached to the Institute, which is open to post-graduate students with a standing entitling them to read for the B.Litt., B.Sc., or D.Phil. of Oxford Univ. and who are studying for one of the above research degrees.

### (f) *Food Preservation and Transport*

1. LOW TEMPERATURE STATION FOR RESEARCH IN BIO-CHEMISTRY AND BIO-PHYSICS (Dept. of Scientific and Industrial Research in conjunction with Camb. Univ.), Cambridge. (*See* III. 8 below.) The work in progress falls under the following heads: (i.) Plant problems; (ii.) Animal problems; (iii.) Fungal and bacteriological problems; (iv.) Canning problems; (v.) Biological engineering problems; (vi.) Problems of the pig industry. (*See also* (b) 2 above.)

2. FRUIT AND VEGETABLE PRESERVATION RESEARCH STATION, Chipping Campden, Glos. (*See* (b) 1 above.)

### (g) *Agricultural Engineering*

INSTITUTE OF AGRICULTURAL ENGINEERING (Univ. of Oxford), 37A St. Giles, Oxford. The aim of the Institute is to undertake research into all depts. of agricultural engineering. Hitherto the main subjects of research have been: (i.) The artificial drying of crops in stack; (ii.) The generation of electricity by wind-power; (iii.) The value of sub-soiling; (iv.) The extraction of sugar from sugar beet by the desiccation process; (v.) The use of electricity on the farm; (vi.) Field drainage. The Institute also answers inquiries relating to agricultural engineering from all parts of the Empire.

## II. FISHERIES.

Persons wishing to avail themselves of the resources of any of the following centres 1-5 should call in the first instance for suggestions and advice on the Ministry of Agriculture and Fisheries, Whitehall, London, S.W.1; for centre 6 on the Department of Agriculture for Scotland, Queen St., Edinburgh; and for centre 7 on the Dept. of Scientific and Industrial Research, 16-18 Old Queen St., London, S.W.1.

1. MARINE BIOLOGICAL ASSOCIATION. A number of research tables at the Plymouth Laboratory are provided free of cost on the nomination of Governors (among others the Univs. of Oxford and Cambridge) and Founders of the Marine Biological Assocn. of the United Kingdom. *The Ray Lankester Fund* provides for the payment of £100 to an Investigator to be appointed from time to time by the trustees on condition of his spending at least 5 months in carrying on researches at the Laboratory. For full particulars application should be made to the Director of the Laboratory, Citadel Hill, Plymouth, Devon.

2. DOVE MARINE LABORATORY, Cullercoats, Northumberland. The Laboratory is under the control of the University of Durham, and is well fitted for research in marine zoology and botany. There is a sea-going motor-boat. Application for talks should be made to the Hon. Director, Professor A. Meek, Zoological Department, Armstrong College, Newcastle-on-Tyne. Special facilities for post-graduate research.

3. FISHERIES LABORATORY, Lowestoft. The main Laboratory of the Fisheries Department of the Ministry of Agriculture and Fisheries, well equipped for deep sea research. A research trawler is kept in commission throughout the year. There is no special provision for outside workers, but duly accredited persons interested in fishery research will be given facilities on application to the Director.

4. FISHERIES RESEARCH STATION, Alresford, Hants. A small laboratory on the river Itchen, maintained by the Fisheries Department (Ministry of Agric. and Fisheries) for work in freshwater ecology in relation to pollution. Accommodation for outside workers is very limited.

5. FISHERIES EXPERIMENT STATION, Castle Bank, Conway. Equipped by the Fisheries Department (Ministry of Agric. and Fisheries) for shellfish research, especially in connexion with sewage pollution and artificial breeding. Accommodation for outside workers is limited. Application should be made to the Director.

#### (Scotland)

6. SCOTTISH MARINE BIOLOGICAL ASSOCIATION, Millport, N.B., admits students and research workers: table space rental 10s. 6d. per week, including loan of microscope and use of ordinary reagents, library and reference collections, boats and collecting appliances when available. Trade dept. for sale of specimens. For full particulars apply to the Superintendent, Marine Station, Keppel Pier, Millport, Buteshire.

#### *Preservation of Fish*

7. TORRY RESEARCH STATION, Aberdeen. (See III. 8 below.) This Station deals with problems connected with the handling of fish as a commercial product.

### III. INDUSTRIAL.

Persons wishing to avail themselves of the resources of any of the centres 1-9 are advised to call in the first instance for suggestions and advice on the Dept. of Scientific and Industrial Research, 16-18 Old Queen St., London, S.W.1. Research workers from overseas are not accommodated in the research stations of the Dept. unless sent by Dominion and Colonial Governments by arrangement with the Department. Visitors from the Dominions or Colonies making enquiries on subjects falling within the scope of the various stations will, however, be supplied with such information as is available for communication.

For centres 10 and onwards applications should be made direct.

1. THE NATIONAL PHYSICAL LABORATORY, Teddington, Middlesex, was founded in the year 1901 as a public institution for standardizing and verifying instruments, testing materials, and for the determination of physical constants. The Laboratory comprises the following main sections: Physics; Electricity; Metrology; Engineering; Aerodynamics; Metallurgy and Metallurgical Chemistry; William Froude National Tank.

2. H.M. FUEL RESEARCH STATION, Blackwall Lane, Greenwich, London, S.E.10, carries out investigations on the nature, preparation, and utilization of fuel of all kinds. The equipment of the Station includes large scale plant for the carbonization, gasification, hydrogenation, cleaning, and briquetting of coal, boiler installations, and internal combustion engines for testing liquid fuel, as well as laboratories for small scale investigations.

3. THE GEOLOGICAL SURVEY OF GREAT BRITAIN AND MUSEUM OF PRACTICAL GEOLOGY, Jermyn St., London, S.W.1, assists students and others doing research as follows: (a) Palæontology, Petrology, and Mineralogy; the collections of British fossils, rocks, and minerals are always available under the guidance of the officer in charge. If sufficient reason is shown specimens may be lent out. Microscopes and all necessary apparatus are provided in the Survey's laboratories. (b) Mapping and field work. In the library large scale maps of all parts of Britain which have been geologically surveyed are open for reference, and often the officers who made the maps are at hand to explain points of difficulty. (c) The library is especially rich in foreign surveys and in British geological literature. The public are admitted freely.

4. THE FOREST PRODUCTS RESEARCH LABORATORY, Princes Risborough, Bucks, is concerned with the general study of forest products, especially timber, with a view to their more efficient conservation and economical use. Arrangements have recently been completed in conjunction with the Empire Marketing Board for the work of the Laboratory to be extended to cover investigations of the technical qualities of Empire timbers.

5. THE BUILDING RESEARCH STATION, Bucknall's Lane, Garston, nr. Watford, Herts., is concerned with general research into building materials and methods of construction.

6. THE RADIO RESEARCH STATION, Slough, Berks, has for its object the scientific study of general problems involved in the development of radio communication.

7. THE CHEMICAL RESEARCH LABORATORY, Teddington, Middlesex, undertakes research on certain purely chemical problems and also chemical investigations on behalf of other research organizations, where these can more conveniently be carried out in a central chemical Laboratory.

8. THE FOOD INVESTIGATION STATIONS of the Department are concerned with research on the storage and transport of foodstuffs. The LOW TEMPERATURE RESEARCH STATION, Downing Street, Cambridge, is concerned mainly, but not exclusively, with fruit and meat; the TORRY RESEARCH STATION, Aberdeen, with fish.

9. THE BRITISH MUSEUM LABORATORY, 39 Russell Square, London, W.C.1, undertakes investigations on the preservation and restoration of museum exhibits.

10. BRITISH CAST IRON RESEARCH ASSOCIATION, 24 St. Paul's Square, Birmingham, of manufacturers of pig iron, grey iron, and malleable castings of all kinds, for research in the constitution, methods of production, and after-treatment of these and auxiliary materials, such as refractories, sands, fuels, slags, fluxes, etc. Their Central laboratory is in Birmingham and an auxiliary laboratory in Falkirk, but other research work is at university and other research laboratories at Sheffield, Birmingham, Manchester, etc., and at the National Physical Laboratory. Investigators interested in any phase of research work on cast iron may use the Association's Information Bureau, and the Director is prepared to co-operate in planning investigations. Quarterly bulletin of abstracts and information on current metallurgical literature. General account of the work of the Association printed in the Proceedings of the Empire Mining and Metallurgical Congress, 1924.

11. THE BRITISH CUTLERY RESEARCH ASSOCIATION, P.O. Box 49, Sheffield, conducts research in problems affecting the whole trade. The cutlery industry, having in the past been based entirely on the skill of the individual workman, has probably more to learn than most trades by the application of modern productive methods. From hand labour to machine production is a difficult and intricate step, and it is this change over which mostly occupies the activities of the Association. A number of machines have been introduced amongst members, and are in regular commercial work, and others are in course of production. All results obtained, subject to the ruling of the Scientific and Industrial Research Department, are confidential to members to whom only reports are distributed.

12. THE BRITISH NON-FERROUS METALS RESEARCH ASSOCIATION, Athenæum Chambers, 71 Temple Row, Birmingham, aims to cover the whole field of the non-ferrous metals and their alloys. Membership of the Association is open to individuals and companies in any part of His Majesty's Dominions who have industrial interests in non-ferrous metals whether as smelters, manufacturers, or users. The researches of the

Association are carried out in approved academic and other institutions, or in works, and the results are in the first instance reserved to members, although much is being published. So far as possible, the Association will be pleased to inform scientific workers from the Overseas Empire of the work it has undertaken or already published.

13. THE BRITISH REFRACTORIES RESEARCH ASSOCIATION, 22 Northumberland Avenue, London, W.C.2, conducts investigations designed to improve the manufacture, quality, and methods of using the heat-resisting materials of which coke-ovens, gas-retorts, and blast and other metallurgical furnaces are constructed. Whilst having its own special field of work, many of its investigations prove of fundamental interest to the clay industries generally, fuel technologists and metallurgists. Research headquarters are at the North Staffs. Technical College, Stoke-on-Trent, and one branch of its work is carried out at Sheffield Univ. Bulletins containing the results of investigations are published periodically, and issued confidentially to members of the Research Assn. Occasional special Bulletins are released for general circulation, and Reports are published from time to time at the discretion of the Council in the appropriate technical journals.

14. THE BRITISH ELECTRICAL AND ALLIED INDUSTRIES RESEARCH ASSOCIATION, 36/38 Kingsway, London, W.C.2, has no laboratory of its own. It arranges programmes of research and carries them out with the help of makers' laboratories and Universities and Technical Colleges (sometimes under contract with members of staffs or students), in power stations, etc. It aims at securing co-ordination of research work and realization of maximum benefits from it. Reports are published generally in the *Journal* of the Institution of Electrical Engineers.

15. RESEARCH ASSOCIATION OF BRITISH MOTOR AND ALLIED MANUFACTURERS. Incorporated 1919. Technical Secretary, C. G. Williams; Laboratories and Offices, 15 Bolton Road, Grove Park, Chiswick, London, W.4. The object of the Association is to promote research in connexion with the British motor trade, to eliminate needless repetition and overlapping of expenses by pooling of resources. Important problems have been attacked and considerable benefits derived. Consultative work is carried out for members. An important feature of the Association's activities is the collection and classification of information of value to the industry. The Research Reports are, in general, confidential to members of the Association, but some are published in scientific journals or read before Technical Institutions.

16. THE BRITISH MOTOR CYCLE AND CYCLE-CAR RESEARCH ASSOCIATION, established 1921. It uses the offices and laboratories of the British Motor Car Research Association at Bolton Road, Chiswick, London, W.4. It conducts research into various problems of importance to manufacturers and users of motor cycles and cycle-cars.

From time to time researches have been prosecuted in laboratories of consultant engineers, and certain specific items have also been carried through in members' factories. Much attention has been devoted to such problems as silencing, carburation, construction of frames, use of

brazes and solders, lubrication, and choice and quality of materials employed in cylinder, piston, and gear box construction. Reports of the Association are, in general, confidential to members, but various articles have been published from time to time in trade and technical journals of the industry. All communications on technical matters should be addressed to C. G. Williams, 15 Bolton Road, Chiswick, London, W.4, and on administrative or legal matters to the Secretary, H. R. Watling, "The Towers," Warwick Road, Coventry.

17. THE BRITISH SCIENTIFIC INSTRUMENT RESEARCH ASSOCIATION, 26 Russell Square, London, W.C.1, conducts research into problems pertinent to the manufacture and use of scientific instruments, including optical, surveying, nautical, and electrical instruments, and electro-medical and X-ray apparatus, and also into optical glass. It has headquarters' laboratories at 26 Russell Square, and researches are prosecuted in universities, technical colleges, works laboratories and works. Students are not admitted to work in the Association's laboratories. The research reports are, in general, confidential to members of the Association and to certain Government services, but some are published from time to time, either in scientific journals or separately for general circulation. The annual reports of the Association are distributed to certain public libraries, etc., at home and abroad, but otherwise are available only to members. Among the institutions receiving them are : the Research Council Library, Parliament Buildings, Ottawa, Canada ; Council of Scientific and Industrial Research, 314 Albert St., East Melbourne, Australia ; Advisory Board of Industry and Science of the Union of S. Africa, New Law Courts, Johannesburg.

18. THE BRITISH PHOTOGRAPHIC RESEARCH ASSOCIATION, Laboratories, 30 Russell Square, London, W.C.1, conducts research into problems underlying the manufacture of sensitive photographic material. The research reports are, in general, confidential to members of the Association, but some are published from time to time in scientific journals.

19. THE RESEARCH ASSOCIATION OF BRITISH PAINT, COLOUR AND VARNISH MANUFACTURERS, Waldegrave Road, Teddington, Middlesex, founded 1926, conducts researches into problems relating to the treatment of the raw materials and the fabrication of the finished products of the industries suggested by the title as well as the allied industries of printing ink, linoleum and artificial cloth manufacture. The researches are wholly prosecuted in the laboratories at the Paint Research Station.

Not the least important part of the studies is concerned with the physical properties of materials. The Association also possesses a small scale factory plant and extensive equipment for carrying out accelerated weathering tests on paint materials. The research reports are in general confidential to members. Annual reports and bulletins are issued from time to time. The Association also issues bi-monthly a Review of Current Literature relating to the Paint, Colour, and Varnish Industries, which embraces about 250 abstracts per issue. This Review is issued primarily for members, but it has a private sale to interested

persons or companies both in England and abroad, not eligible for membership of the Association.

20. THE BRITISH COTTON INDUSTRY RESEARCH ASSOCIATION, Shirley Institute, Didsbury, Manchester, does not admit students to work in its laboratories. Its research results are communicated to its members, and the papers released for open publication are issued in the *Journal of the Textile Institute*, 16 St. Mary's Parsonage, Manchester.

21. THE BRITISH RESEARCH ASSOCIATION FOR THE WOOLLEN AND WORSTED INDUSTRIES, "Torridon," Headingley, Leeds, awards research fellowships and advanced scholarships tenable at Universities and Colleges, and by arrangement with the Univ. of Leeds, post-graduates proceeding to higher degrees can carry out their research work at the Association's laboratories. The results of research carried out at the headquarters of the Association are published in the *Journal of the Textile Institute*, the *Journal of the Society of Dyers and Colourists*, and in other scientific journals. Other reports are retained in the first instance for private circulation to members of the Association, but may subsequently be released for general circulation.

22. THE LINEN INDUSTRY RESEARCH ASSOCIATION, Lambeg, Co. Antrim, N. Ireland. Investigators, who must be British subjects, are admitted to work in the Association's Research Institute in furtherance of its objects and in preparation for higher University degrees. The work includes the investigation of problems arising in all branches of the industry, from the propagation of the seed to the merchandising of the finished goods. It affords scope for much original research in economic botany, agriculture, bio-chemistry, and physics, particularly the properties of colloids. The results of researches are frequently published in scientific journals. In order to develop flax-growing within the Empire, special arrangements exist to provide post-graduate instruction in the economic botany and technical utilization of the flax plant for suitable nominees from outlying parts of the Empire.

23. THE BRITISH SILK RESEARCH ASSOCIATION, 19 Russell Square, London, W.C.1. Research results of general interest are usually published by the *Journal of the Textile Institute*. Provision is not normally made for circulation of unpublished reports to non-members. Research students, incl. students preparing for higher Univ. degrees, admitted to laboratory.

24. THE BRITISH LAUNDERERS' RESEARCH ASSOCIATION, 17 Lancaster Gate, London, W.2, is investigating the laundering of all types of washable fabrics—including cotton, linen, wool, silk, and rayon materials. The work includes in its scope the cleansing, drying, and re-finishing of these fabrics, in the diverse forms in which they are presented in articles of wear, domestic use, etc.; the materials used for these purposes. Engineering department deals with the plant required. The laboratories (at Hill View Gardens, Hendon, London, N.W.4) include an experimental laundry in which semi-full scale experimental work is carried out. Members may send students for courses of instruction in the Association's methods at the laboratories. In general the re-

search reports are confidential to members, but some have appeared in the appropriate scientific journals. Every attempt is made to encourage the application of scientific knowledge and methods in laundering, and numerous lectures are given throughout the British Isles, by the Association's staff.

25. THE BRITISH LEATHER MANUFACTURERS' RESEARCH ASSOCIATION, Offices, 8 St. Thomas Street, London, S.E.1, and the Laboratory of the Director in the Lister Institute, Chelsea Bridge Road, London, S.W.1, conducts research in regard to the manufacture (tanning, currying and dressing) of leather and the raw materials of the Industry. The research reports are generally confidential to members of the Association and to certain Government services, but papers are occasionally printed in scientific or trade journals or separately for more general circulation.

26. THE BRITISH BOOT, SHOE, AND ALLIED TRADES RESEARCH ASSOCIATION, 19 Bedford Square, London, W.C.1, conducts research into problems that arise in the manufacture in bulk quantities of footwear, in its distribution to the general public and during its wear. The researches cover a wide field, embracing methods of measuring feet, statistical studies of the distribution of different types of feet, the design of lasts to suit different types of feet, the properties of shoe materials, the care of them and their economical use, and the chemical and other effects that may arise in the wear of shoes. A certain amount of work is carried out in collaboration with factories and technical colls. Students have from time to time been admitted to the Association's laboratories. The research reports are in general confidential to members of the Association and to certain Government Depts., but some are published, generally in the *Journal of the International Society of Leather Trades Chemists*. Membership of the Assocn. consists principally of boot and shoe manufacturers, but it also includes a number of manufacturers and suppliers of various shoe materials, such as textile fabrics, textile threads, shoe polishes, cleaners, dressings, and a few engineering firms who manufacture shoe machinery.

27. THE RESEARCH ASSOCIATION OF BRITISH RUBBER MANUFACTURERS, 105/107 Lansdowne Road, Croydon, Surrey, has laboratories, together with a technical library and information bureau to deal with inquiries from its members, Government Departments, and scientific workers in the Dominions. Carries out research, chiefly of a confidential nature, through its own staff. A *Summary of Current Literature*, containing abstracts of technical and scientific publications relating to all branches of the rubber industry, is issued to members and subscribers each month.

28. THE RESEARCH ASSOCIATION OF BRITISH FLOUR MILLERS, 40 Trinity Square, London, E.C.3, conducts research into problems connected with the manufacture and use of wheat flour and other products of wheat. The researches are carried out mainly at the laboratories of the Association, Old London Road, St. Albans, under the supervision of the Director of Research. Practical industrial applications of the laboratory scale work are studied in the mills of constituent firms. Reports of scientific work are, in general, confidential to members of the

Association, but some are released from time to time for publication in the scientific or technical press. A library of scientific and technical books and periodicals bearing directly on flour milling and baking problems is being developed, and is accessible to students and others interested. Students as a rule are not admitted to work in the Association's laboratories.

29. THE BRITISH ASSOCIATION OF RESEARCH FOR THE COCOA, CHOCOLATE, SUGAR CONFECTIONERY, AND JAM TRADES, Laboratories, 2 and 4 Dalmeny Avenue, Holloway, London, N.7, conducts research into problems connected with the manufacture of these products, though occasionally some portions of an investigation may be conducted in a factory. The research reports are issued to members and certain Government Departments only, and, with a few exceptions, are confidential. Some reports, particularly those dealing with analytical investigations, are published in scientific or trade journals.

30. THE BRITISH FOOD MANUFACTURERS' RESEARCH ASSOCIATION, 2 and 4 Dalmeny Avenue, Holloway, London, N.7. This Association was originally intended to include branches of the food industries not covered by the Association for the Cocoa, Chocolate, Sugar Confectionery, and Jam Trades. Meantime, however, the membership is confined to manufacturers of sausages, cooked meats, and other meat products, also bacon and ham curers.

The researches into problems connected with these products are conducted in the Association's laboratories, and occasionally parts of the investigations may be carried out in factories. The reports are confidential, and are issued to members and certain Government services only. So far no reports have been published in either scientific or trade journals.

31. THE BRITISH COLLIERY OWNERS' RESEARCH ASSOCIATION, General Buildings, Aldwych, London, W.C.2. This is an Association whose members are the various district colliery owners' associations constituting the Mining Association of Great Britain.

Though the Association conducts directly a certain amount of research work into mining problems, generally speaking it finances approved items of research work to be conducted on its behalf. Its reports are in general confidential to members of the Association, but from time to time reports on specific items of work are published for general circulation.

32. SCOTTISH SHALE OIL SCIENTIFIC AND INDUSTRIAL RESEARCH ASSOCIATION, 53 Bothwell Street, Glasgow.

33. THE INDUSTRIAL INSTITUTE, 102 Belgrave Road, S.W.1. Founded 1925 for the promotion of scientific research into those questions of industrial economics and industrial ethics which touch the relations and interests of the groups into which the development of the industrial system has divided the nation. It is constituted on a non-party basis, and it is expressly laid down that "it will not be concerned to maintain private ownership nor to develop public ownership," its object being "to study things as they are, and by the light of know-

ledge so gained to form conclusions which may be put into practice and tend towards improvement of the conditions of industrial life."

The essential object of the Institute is to provide means whereby the time taken for the general acceptance of the results of scientific work, and the application of those results to the problems of practical life, may be shortened. Accordingly, the Institute has been constructed so that it associates in its work both those concerned with the development of pure science and those concerned with practical affairs. Further, its governing body is constituted of men so representative of the various special interests that each social group may readily be reached and influenced directly, and the usual, rough, methods of propaganda be unnecessary. Lastly, since leaders in the main sectional groups are responsible for the work of the Institute, its findings are freed from the suspicion which attaches to those of any organization attached to any one interest; a suspicion which renders much useful work comparatively ineffective.

34. NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY, Aldwych House, Aldwych, London, W.C.2. Director—C. S. Myers, C.B.E., M.D., Sc.D., F.R.S. The Institute is a non-Government body founded in 1921, and controlled by a council of scientists, industrial employers, and Trade Union leaders. It exists to apply psychological and physiological knowledge to the human element in industry, its aim being to ensure that energy is applied in the most economical possible way, and not wasted through inefficient methods or unsuitable working conditions. Its scope at present includes fatigue- and movement-study, and study of the effect on efficiency of different incentive systems, working hours, rest pauses, lighting, humidity, and ventilation, etc. Recently, also, it has extended its activities to cover organization questions, such as planning, progressing, lay-out, and internal transport. Investigations are carried out on behalf of industrial firms.

On its vocational side the Institute applies mental and physical tests to determine the fitness of individuals for particular types of work. Tests are devised and standardized for the use of industrial firms in selecting employees, and in the laboratories of the Institute or in schools individuals are tested and advised on the choice of an occupation.

The Institute gives lectures and practical courses suitable for the requirements of the new Academic Diploma in Psychology of the Univ. of London. It also offers facilities for research in those subjects, and organizes Training Courses for school teachers in the principles and methods of intelligence testing. *Journal*, quarterly; *Special Reports*.

#### IV. PURE SCIENCE.

I. BRITISH MUSEUM (NATURAL HISTORY). Departments: Zoology, Entomology, Geology (Palæontology), Mineralogy, Botany. In addition to the specimens exhibited in the public galleries, much larger series are contained in the study-collections, which can be consulted or used for purposes of research by duly qualified workers. The function of the Museum is primarily to preserve representatives of the animals

and plants (including fossils) of the entire world and of such inorganic natural productions as minerals, rocks, and meteorites. The systematic determination, description, and classification of this material constitute the principal research-work of the scientific staff (49 members) and other helpers. This forms the basis of further scientific research carried on either inside or outside the Museum, such as the study of variation, methods of organic evolution, geographical distribution of animals and plants, correlation of strata, chemical and physical properties of rocks and minerals, study of crystals. All these branches of science may in turn be applied to the solution of practical problems.

*Publications. Scientific Catalogues and Monographs, etc.; Natural History Magazine* (quarterly).

2. **DAVY FARADAY RESEARCH LABORATORY**, The Royal Institution, 21 Albemarle Street, London, W.1. The research work of the Royal Institution is carried on in the Davy Faraday Laboratory, which is housed in a building adjoining the Institution, presented by the late Dr. Ludwig Mond. There is room for about fifteen research workers. The laboratories are open to anyone who wishes to carry on researches in connexion with physics and chemistry provided the subject and the worker are approved by the Committee of Management. No fees are charged.

At the present time, the main subject of investigation is the analysis of organic crystals by means of X-rays.

3. **CAMBRIDGE OBSERVATORY**, Madingley Road, Cambridge. Every effort is made to give research students facilities for carrying out investigations. Applications should be made to the Director.

4. **THE SOLAR PHYSICS OBSERVATORY**, Madingley Road, Cambridge. The laboratory contains spectroscopic, photometric, and other apparatus for experimental research and many photographic records of spectra. Facilities are offered to research students for carrying out special researches or for taking a share in the regular work of the Observatory. Applications should be made, in writing, in the first instance, to the Director.

5. **LONDON UNIVERSITY OBSERVATORY**, *see* p. 125.

6. **THE SCOTT POLAR RESEARCH INSTITUTE**, Lensfield, Lensfield Road, Cambridge. This Institute was founded in 1921 in memory of the late Captain Robert Falcon Scott, C.V.O., R.N. The purpose of the Institute is to provide information about, and facilities for research on polar topics, and to give assistance towards the publication of the results of expeditions. The collections of the Institute include a polar library, maps, photographs, and pictures, specimens of travelling equipment, and a collection of original records of past expeditions. Applications to use the resources of the Institute should be addressed to the Director.

7. **FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS**, *see* p. 123.

V. MEDICAL.

The following centres, 1-5, are under the direction of the Medical Research Council.

1. THE NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, London, N.W.3 (Director: H. H. Dale, C.B.E., M.D., Sec. R.S.). This is the central research institute of the Medical Research Council (*see* App. XXIII. C.), and is primarily a place of work for members of the Council's permanent scientific staff. A few well-qualified attached workers can be received by special arrangement to follow approved lines of inquiry. There are no courses of instruction, but periods of research work at the Institute may be accepted for the purposes of higher degrees in the University of London. The Institute includes the following departments, brought together in the present building in 1920: (a) biochemistry and pharmacology; (b) experimental pathology, bacteriology, and protistology; (c) applied physiology and hygiene; (d) applied optics; and (e) biological standards. Parts of the work of various departments are done at the associated FARM LABORATORIES at Mill Hill.

2. MEDICAL RESEARCH COUNCIL, DEPARTMENT OF EXPERIMENTAL MEDICINE (Director: Sir Thomas Lewis, C.B.E., M.D., D.Sc., F.R.S.), at University College Hospital, London, W.C.1. The department is engaged in clinical researches into the cardio-vascular system in health and disease. Attached workers may be received by arrangement with the Director.

3. THE NATIONAL COLLECTION OF TYPE CULTURES (Curator: R. St. John-Brooks, M.D.), at present housed at the Lister Institute, London, S.W.1. Type cultures of pathogenic and other micro-organisms are maintained and researches into systematic and cultural problems undertaken.

4. THE STANDARDS LABORATORY, Oxford. (In charge, A. D. Gardner, D.M.) The laboratory is maintained for the production of standard diagnostic cultures and sera for enteric, dysenteric, and some other infections, and for related research work. It is at present placed within the Dunn Institute of Pathology, University of Oxford.

5. THE DUNN NUTRITIONAL LABORATORY, Cambridge. (In charge, L. J. Harris, D.Sc., Ph.D.) Maintained by the Council at the University Field Laboratories, Milton Road, for researches into problems of human nutrition, in association with the University departments for the various medical sciences.

6. THE WELLCOME BUREAU OF SCIENTIFIC RESEARCH, to which are affiliated certain other research laboratories, was founded by Dr. Henry S. Wellcome, for the purpose of research, especially in subjects connected with tropical medicine and hygiene. There are departments of bacteriology, pathology, chemotherapy, protozoology, helminthology, and entomology. Regular teaching is not undertaken, but a limited number of research workers, who wish to follow some particular line of investigation may be given accommodation and facilities for carrying

out their work. No charge is made for this, and all material is supplied, unless it is of a very special nature. Attached to the Bureau is the Museum of Medical Science (*see* IX. 3 below).

7. THE STRANGWAYS RESEARCH LABORATORY, Cambridge, is an independent institution entirely devoted to the study of tissue culture *in vitro* and to the application of that technique to biological problems. Work at present in progress includes investigations of the minute anatomy of living cells, the growth and differentiation of early embryonic tissue, the pathology of injury and repair, and the effects on living cells of X-rays and radium.

The Laboratory provides facilities for a limited number of workers who wish to investigate some specific problem involving the tissue culture technique. Such accommodation cannot be afforded for a period of less than six months. A course of instruction in the technique of tissue culture is arranged annually in the summer for post-graduates and advanced students who wish a general introduction to the subject. This course lasts six weeks; admission is necessarily strictly limited. Further information may be obtained from Dr. H. B. Fell, Strangeways Research Laboratory, Cambridge, "via Cherryinton."

8. THE IMPERIAL CANCER RESEARCH FUND, under the direction of the R.C.P. London and the R.C.S. England, was constituted in 1902 to promote investigations into all matters bearing on the causes, prevention, and treatment of cancer and malignant disease. It possesses Research Laboratories and a staff consisting of the Director and 5 scientific assistants. It publishes a general report annually and scientific reports from time to time. Endowment fund, £181,000. *Address*—8-11 Queen Square, London, W.C.1.

#### CENTRES OF SCIENTIFIC INFORMATION

#### VI. BOTANY AND AGRICULTURE.

##### (*England and Wales*)

1. ROYAL BOTANIC GARDENS. Information is supplied on botanical matters to all parts of the Empire. (*See also* I. 1 above.)

2. IMPERIAL BUREAU OF ENTOMOLOGY. An information and identification bureau to assist economic entomologists throughout the Empire. The publications include the *Review of Applied Entomology*, Series "A" (Agricultural) and Series "B" (Medical and Veterinary); the *Bulletin of Entomological Research*; and the *Zoological Record*, part "Insecta." A large lending library is available.

3. IMPERIAL BUREAU OF MYCOLOGY. Mycologists from overseas are admitted to its laboratories to the extent to which space is available. A large lending library of pamphlets is maintained. *Review of Applied Mycology*, published by the Bureau monthly, contains detailed abstracts in English of all work published in any part of the world.

The following Bureaux Nos. 4-9, and 13, 14 inclusive were instituted in 1929 as the result of the Imperial Agricultural Research Conference held in London in 1927. They are maintained from a fund provided by contributions from the Governments of the Empire, and are controlled by an Executive Council appointed by those Govts. *Address*: 2 Queen Anne's Gate Buildings, London, S.W.1. The Bureaux do not undertake research; they assist research workers in the Empire by acting as clearing-houses of information and by arranging meetings.

4. IMPERIAL BUREAU OF SOIL SCIENCE, Rothamsted Experimental Station, Harpenden, Herts, a central clearing-house of information on soil problems throughout the Empire. (*See I. (a) 3 above.*)

5. IMPERIAL BUREAU OF PLANT GENETICS, Plant Breeding Institute, Cambridge University. This Bureau collects and disseminates information on crops other than herbage plants throughout the Empire. (*See I. (a) 5 above.*)

6. IMPERIAL BUREAU OF PLANT GENETICS, Welsh Plant Breeding Station, Aberystwyth. This Bureau collects and disseminates information on herbage plants throughout the Empire. (*See I. (a) 6 above.*)

7. IMPERIAL BUREAU OF FRUIT PRODUCTION, East Malling Research Station, Kent. (*See I. (b) 2 above.*)

8. IMPERIAL BUREAU OF ANIMAL HEALTH, Veterinary Research Laboratory, Weybridge. (*See I. (c) 4 above.*)

9. IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY, Institute of Agricultural Parasitology, Winches Farm, Hatfield Road, St. Albans, Herts. (*See I. (c) 5 above.*)

10. LONG ASHTON FRUIT RESEARCH STATION, Nr. Bristol. *See I. (b) 1 above.*

11. EXPERIMENTAL AND RESEARCH STATION, Cheshunt. (*See I. (b) 4 above.*)

12. INSTITUTE OF AGRICULTURAL ENGINEERING, Oxford. (*See I. (g) above.*)

*(Scotland)*

13. IMPERIAL BUREAU OF ANIMAL NUTRITION, Rowett Research Institute, Aberdeen. (*See I. (d) 5 above.*)

14. IMPERIAL BUREAU OF ANIMAL GENETICS, Animal Breeding Research Dept., Edinburgh. (*See I. (d) 7 above.*)

## VII. INDUSTRIAL.

*(England and Wales)*

1. IMPERIAL INSTITUTE, S. Kensington, London, S.W. 7. The principal object of the Institute is to promote the utilization of the raw materials of the Empire, and the investigations carried out in its laboratories are primarily directed to this end. The work includes the

examination of all kinds of plant products and minerals; special laboratories have also been installed for the testing of timbers, rubber, cement and ceramic materials. The results of the principal investigations are published in the quarterly bulletin of the Institute and in papers contributed to scientific and technical societies. Valuable information relating to the composition, properties, etc., of raw materials of all kinds has been accumulated in the course of the work, and the Institute will be glad to assist overseas research workers dealing with such materials by supplying any available information regarding particular products in which they are interested. Arrangements have been made in special cases for workers from overseas to carry out investigations in the laboratories of the Institute.

The *Imperial Mineral Resources Bureau* was amalgamated with the Institute in 1925. The Bureau is organized to supply technical information dealing with the mineral resources of the Empire.

2. THE MUSEUM OF PRACTICAL GEOLOGY, Jermyn Street, London, S.W.1, to which is attached a valuable library of standard works and geological maps, serves as the laboratory of the Geological Survey of Great Britain (see III. 3 above). In the library large scale maps of all parts of Gt. Britain which have been geologically surveyed are open for reference, and the officers of the Survey are ready to explain points of difficulty. The library is also specially rich in foreign surveys.

3. THE SCIENCE MUSEUM, South Kensington, S.W.7, which is the National Museum of Science and Industry, was established in 1856, and its collections now occupy 192,000 sq. ft. of exhibition space. Its purpose is to illustrate science and the application of science to industry, at the same time to show the gradual development of the modern efficient types from earlier and more simple ones.

The Museum is open to visitors free of charge every week-day and on Sunday afternoons.

Pure Science is represented by the Collections of instruments and apparatus used for study and research in the phenomena of various branches of physics, electricity, heat, light, acoustics, etc., as well as in astronomy, chemistry, geodesy, and the measurement of time.

The application of science to industry is illustrated by extensive collections of machinery and apparatus relating to Mech. Engineering, Railway Engineering, Road Transport, including Mech. Transport of all kinds; Aeronautics, Ship and Boat construction, Marine Engines, Elect. Engineering, including all forms of Telegraphy, Telephony, and Radio-communication. Many groups of Industrial Engineering are also represented as: Textile Machinery, Hand Tools and Machine Tools, Printing, Glass Technology, Agric. Implements and Machinery, as well as Mining, Metallurgy, and Ore Dressing.

The number of visitors during 1929 considerably exceeded one million.

The Science Library which is attached to the Museum contains 200,000 vols. relating to all kinds of science, pure and applied, except Medical Science, and including 9000 scientific periodicals. All these are issued on loan to scientific institutions for the use of their members on requisition.

*(Scotland)*

4. ROYAL SCOTTISH MUSEUM, Edinburgh. A centre of scientific information dealing with technology. (See VIII. 8 below.)

VIII. PURE SCIENCE.*(England and Wales)*

1. ROYAL BOTANIC GARDENS, Kew. (See I. (a) 1 above.)
2. BRITISH MUSEUM (NATURAL HISTORY). The various departments of the Museum (see III. 1 above) contain, besides the specimens in the public galleries, much larger series in the study collections which are available for consultation or research by qualified workers. Attached to the Museum is an important library of scientific works intended primarily for the use of the staff, but also available to students with tickets for the study of the natural history collections.
3. MUSEUM OF PRACTICAL GEOLOGY. (See VII. 2 above.)
4. SCIENCE MUSEUM. (See VII. 3 above.)
5. NATIONAL MUSEUM OF WALES, Cardiff, South Wales. A centre of scientific information on the geology, botany, zoology, and archæology of Wales.
6. BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Burlington House, Piccadilly, London, W.1. Research Committees of the Association conduct researches and prepare reports. Committees of the Sections consider *inter alia* the financing of proposed researches by such Research Committees. The Association administers for this purpose a fund, providing an income of about £350 annually, given by the late Sir James Caird of Dundee in 1912; any surplus from subscriptions in excess of administrative expenses are also devoted to research. The Association welcomes the attendance of University students at its annual meetings, and has a special class of "student membership" at reduced fees for duly qualified persons.
7. THE SCOTT POLAR RESEARCH INSTITUTE. (See IV. 6 above.)
8. ROYAL SCOTTISH MUSEUM, Edinburgh. A centre of scientific information dealing with ethnography and natural history. (See VII. 4 above.)

## IX. MEDICAL.

1. THE BUREAU OF HYGIENE AND TROPICAL DISEASES, Keppel Street, Gower Street, London, W.C.1, is under the general control and direction of an honorary Managing Committee appointed by and responsible to the Secretary of State for the Colonies. The Bureau's main function is to collect, from all sources, information regarding hygiene and tropical diseases, including diseases of animals; to collate, condense, and where necessary translate this information, and make it available by means of its three publications, viz. the *Tropical Diseases*

*Bulletin* and *Bulletin of Hygiene*, issued monthly, and the *Tropical Veterinary Bulletin*, issued quarterly. The Bureau is housed with the London School of Hygiene and Tropical Medicine, and its valuable library is now incorporated with that of the School. The joint library contains 15,000 vols., and is open to accredited post-graduate research workers. The Bureau is officially recognized by the Colonial Office as an institution which receives and answers inquiries on matters relating to hygiene and tropical medicine.

2. THE MUSEUM OF THE LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, Keppel St., Gower St., London, W.C.1, which is of the graphic type, is divided into three sections, *i.e.* Tropical Medicine, General Hygiene, and Sanitary Engineering.

The Tropical Medicine Museum deals generally with tropical diseases and with the subjects of bacteriology, entomology, helminthology, and protozoology in their relation to tropical medicine.

The General Hygiene Museum has exhibits relating to food stuffs, especially milk, and gives a graphic display of the ordinary communicable diseases, including methods for their control. There are also sections dealing with clothing, maternity, and child welfare, personal hygiene, and other branches of hygienic activity.

The Sanitary Engineering Museum is devoted to a graphic exposition of water supply, conservancy, heating and lighting, up-to-date methods of cooking, town-planning, building, sanitary appliances, and the more primitive methods of sanitation in the tropics.

The Museum occupies three large rooms, one in the basement, one on the second floor, and one on the third floor, and, though far from complete, is being extended as fast as circumstances will permit.

3. THE WELLCOME MUSEUM OF MEDICAL SCIENCE, Endsleigh Court, 33 Gordon Street, London, W.C.1 (open Monday to Friday 9.30 A.M. to 5.30 P.M., Saturday 9.30 A.M. to 12.30 P.M.), presents a new system of visual teaching. The purpose and plan of the Museum is to give a general survey of human disease from every aspect. The causation, pathology, symptomatology, treatment and prevention of disease are demonstrated by means of pathological specimens, models, paintings, photographs, etc., in such a way that they convey a graphic picture of the more important features. Associated with each disease a short summary is set forth of the important points; there is also a file containing abstracts with regard to all the more recent work.

The microscopic side of morbid anatomy is dealt with by means of colour photo-micrography, many of the photographs being shown in special illuminated cases. Thus an attempt has been made to provide a continuous demonstration of disease which will fix itself on the attention and memory of those who visit the Museum.

The Museum of Medical Science is open free of charge to all medical men, Health Officers, and students, also to laymen interested in medicine, provided they are introduced by a registered medical practitioner. Teachers of medicine are invited to give demonstrations to their classes in the Museum; and special attention is called to its value as a centre for post-graduate study.

## B. IN THE DOMINIONS, DEPENDENCIES AND COLONIES

## CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

I. CANADA.

The Government of Canada in 1916 constituted the Honorary Advisory Council for Scientific and Industrial Research, now known under the short title—"National Research Council," consisting of 15 scientists and business men, all of whom, excepting the President of the Council, serve on an honorary basis. This Council has engaged in three major activities: (1) the co-ordination of research work and the organization of co-operative investigations; (2) the post-graduate training of research workers (*see* App. XXIII. C. above); (3) the prosecution of research work through assisted research grants. Expenditure in 1928-29, \$323,524.57, including \$43,720.00 for scholarships and \$197,894.76 for assisted researches. More than 40 per cent of all moneys expended by the Council since it was established has been devoted to the co-ordination and stimulation of research in Univ., Government, and industrial laboratories throughout Canada.

The Council has established two classes of *Associate Committees*, the first primarily to advise on scientific questions, the second, to direct research on some major problem. At the close of 1927-28, 24 *Associate Committees* were in active operation.

(For further particulars, see *Canada Yearbook*, 1929, pp. 927-31.)

The Canadian Parliament has authorized a capital expenditure of \$3,000,000 for the erection and equipment of National Research Laboratories under the control and direction of the Council. The Laboratories will provide accommodation for researches on industrial problems as well as problems in pure science, and will also serve as a national bureau of standards. The plans and specifications for the building are completed, and building operations began in the autumn of 1929. Meantime temporary laboratories are provided, and the National Research Council is building up a scientific and technical staff. *See also* p. 347.

ONTARIO RESEARCH FOUNDATION, 47 Queen's Park, Toronto (*Director*, Dr. H. B. Speakman), founded by the manufacturers of the Province and the Provincial Government on a £ for £ basis for research into industrial and agricultural problems that concern Ontario as a whole. Researches affecting the woollen, meat-packing, metal, and leather industries will be begun at an early date. The total sum raised from private, commercial, and government sources is at present £800,000, and a million sterling is aimed at.

II. AUSTRALIA.

THE NATIONAL RESEARCH COUNCIL was founded in 1921 to represent Australia in the International Research Council, and also serves as a national academy of pure and applied science (all branches). Address:

The Secretary, National Research Council of Australia, c/o G. Lightfoot, M.A., 314 Albert Street, East Melbourne.

THE COMMONWEALTH COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH was established by the Science and Industry Research Act, 1926, and has taken the place of the former Institute of Science and Industry, which was constituted in 1920, and had succeeded a temporary Advisory Council of Science and Industry created in 1916. The Council consists of 3 nominees of the Commonwealth Government, the Chairman of each State Committee constituted by the Act, and other persons co-opted for their scientific knowledge. Its main functions are : (a) to carry out scientific researches in connexion with the primary and secondary industries of Australia ; (b) to train research workers ; (c) to make grants in aid of pure scientific research ; (d) to carry out the testing and standardization of scientific instruments and apparatus ; and (e) to act as a means of liaison between the Commonwealth and other countries in matters of scientific research. In the formation of the Council, the Government made a grant to it of a sum of £250,000 for research work and investigations for an unspecified period. A like sum was made available to the Council by the Government two years later. The Council has decided to concentrate efforts mainly on 5 major branches, viz. : (a) plant problems, (b) animal problems, (c) forest products, (d) entomological problems, and (e) preservation of foodstuffs, especially cold storage. Already Divisions of Animal Nutrition, Economic Botany, Economic Entomology, and Forest Products have been organized, and several investigators are occupied on investigations of various animal diseases. The organization of work on cold storage is proceeding. The Council maintains or assists the following *Research Stations* :

For *Citriculture*. A Research Station was established at Griffith, Murrumbidgee Irrigation area, N.S.W., some years ago, and is now owned and financed jointly by the Council and the Water Conservation and Irrigation Commission, N.S.W., who supply all water free of cost. The present area is about 80 acres.

For *Viticulture*. The Council now maintain the Research Station at Merbrin, near Mildura, formerly under the control of the Mildura Vineyards Protection Board. The area of the Station is 86 acres, most of it irrigable. The land was given by the Victorian State Rivers and Water Supply Commission, which is closely associated with all the work carried on. The most fundamental work in hand is a soil and ecological survey ; the physical, chemical, and bacteriological constitution of the soils and the original native vegetation being correlated with the results obtained in the vineyards, citrus groves, and orchards of the district. The root system of vines under irrigation and bud development are being studied as part of the problems of producing currants and raisins under irrigation. The percolation of water from irrigation furrows in different soils is also being studied. The " cold-dip " process of drying sultanias, largely the outcome of work at the Station, is estimated to have raised the quality of the product from the district by £30,000 in a single season.

For *Economic Entomology*. Laboratories at Canberra for Economic

Entomology have been finished and are being equipped. They are designed to allow of their incorporation in future with a central administrative block for the Council and a corresponding laboratory for Economic Botany.

For *Animal Health*. The Council have recently received a gift of £20,000 from Mr. F. D. McMaster, a pastoralist of Dalkeith, N.S.W., for the erection of a laboratory for research into problems of animal health. The plans and organization have made some progress already. The Station will be called "The F. D. McMaster Animal Health Laboratory," and the problems to be investigated will relate mainly to the health of sheep. The Univ. of Sydney, which has agreed to provide a site within the Univ. grounds alongside the Veterinary Department, the N.S.W. Dept. of Agriculture, and the Graziers' Assocn. of N.S.W. are being invited to co-operate.

For *Animal Pests and Diseases*. The Glenfield Animal Research Institute, N.S.W., is aided by the Council. Work is being done on (a) paralysis in pigs, (b) toxæmic plethora, (c) sterility in cows, and (d) poisonous plants.

At Melbourne University Veterinary Research Institute research is being done into bovine pleuro-pneumonia and tuberculosis in cattle.

At Sydney University Veterinary Department work is being done on braxy disease in sheep and on parasitological problems.

For *Animal Nutrition*. A laboratory has been built at Adelaide in close connexion with the University for fundamental work under the control till recently of the late Professor Brailsford Robertson. This work is linked up with field, calorimetric, and other work at the Waite Agricultural Research Institute (*see below*) and with four field stations in South Australia, Victoria, N.S.W., and Queensland.

The Council is working in close co-operation with the State Government Departments, the Universities, and other institutions. It is also co-operating with the British Dept. of Scientific and Industrial Research.

The Australian Council is also co-operating with the British Dept. of Scientific and Industrial Research in radio research, in an experimental geophysical survey in Victoria and N.S.W. (with financial assistance from the Empire Marketing Board (*see Appendix XXIII. G.*)), and with other parts of the Empire in the study of the mineral deficiencies of pastures, to which the E.M.B. has also contributed. The Council is in close touch with the British Dept. of Sci. and Ind. Research on problems connected with Building, Forest Products, and Fuel.

THE AUSTRALIAN INSTITUTE OF TROPICAL MEDICINE, Townsville, North Queensland, is under the control of the Commonwealth Department of Health. The staff, consisting of a Director, 4 medical officers, and an entomologist with technical assistants, etc., perform educational and diagnostic as well as investigational functions.

THE WAITE AGRICULTURAL RESEARCH INSTITUTE, Adelaide, S. Australia (*Director*, Prof. A. E. V. Richardson), was founded with a private endowment in 1923, and is closely connected with the University of Adelaide. It has an important Soils Division, the head of which,

Prof. J. A. Prescott, is adviser on soil problems to the Australian Council of Sci. and Ind. Research, and is also carrying on researches into certain plant diseases, especially virus and soil-borne fungus diseases, and into the mineral deficiencies of pastures in co-operation with the Australian Council of Sci. and Ind. Research.

### III. NEW ZEALAND.

THE NEW ZEALAND DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Wellington, N.Z., was established in 1926 and functions through a corresponding Dept. of Scientific and Industrial Research. The Council acts in an advisory capacity to the Government on all aspects of research, with the exception of medical research, and, through the Dept., undertakes specific research work. Investigations are proceeding in connexion with the following: Dairying; Wheat, Flour, and Bread production; Seeds and Plants; Noxious Weeds Control; Mineral Content of Pastures; Phormium; Pig production; Pork and Bacon manufacture; Wool; Fuel; Fruit; Cold Storage; Pakihi Lands; Leather; Standards and Standardization; and Radio. Wherever possible the investigations are carried out at already established institutions, such as the four University Colls., the two Agricultural Colls., Cawthron Institute, and the laboratories of the Dept. of Agriculture. Each research is under the immediate direction of a Committee representative of the industry contributing towards the cost of the work, and of the Council. Funds for research are secured partly from Government grants, partly from amounts provided by the various industries, and from the Empire Marketing Board. The expenditure on research for the financial year, 1929, was approximately £43,000, of which £20,000 was provided by industry and the E.M.B.

The New Zealand Institute receives from the Dept. an annual grant of £750 for the furtherance of various researches undertaken by its members.

The branches of the Dept. of Scientific and Industrial Research, viz. Dominion Laboratory, Geological Survey Office, Meteorological Office, Dominion Observatory, and Petrological Laboratory, all undertake a certain amount of research work, and their staffs are available for co-ordinated investigations.

CAWTHRON INSTITUTE, Nelson, founded 1915, is a privately endowed research Institute, income £12,000 p.a. and grants from the N.Z. Department of Sci. and Ind. Research and fruit interests, whose main lines of investigation are concerned with the agricultural problems peculiar to the Nelson district. On account of the importance of fruit-farming in that district, the investigations deal with soil surveys, fruit-tree culture and manures, orchard entomology, mycology, and chemistry, and fruit storage. With the assistance of grants from the Dept. of Sci. and Ind. Research, work is also being carried out on biological control of noxious weeds, mineral content of pastures, cold storage of fruit, and utilization of Pakihi soils. In the near future a Forest Biological Research Station will be established at Cawthron Institute.

THE STATE FOREST SERVICE (headquarters, Wellington) conducts investigations into the development and utilization of both indigenous and exotic forest timbers.

THE DEPARTMENT OF AGRICULTURE undertakes (1) veterinary research at its Wallaceville Laboratory near Wellington, (2) farm management investigations, (3) chemical investigations of all problems connected with agriculture.

CANTERBURY AGRICULTURAL COLLEGE, Lincoln. An annual grant of £3700 for research is made to Canterbury Agricultural Coll., and, as a result, investigations are proceeding on wheat and other cereal crops, grasses and pasture plants, animal nutrition and disease, farm economics and wool production. The WHEAT RESEARCH INSTITUTE is established in association with Canterbury Agricultural College.

MASSEY AGRICULTURAL COLLEGE, Palmerston North. Research into wool production, phormium culture, grasses and pastures, and plant diseases are proceeding. The DAIRY RESEARCH INSTITUTE and the PLANT RESEARCH STATION are located adjacent to Massey Agricultural College.

UNIVERSITY COLLEGES AT AUCKLAND AND WELLINGTON, CHRISTCHURCH AND DUNEDIN undertake research work in a number of different subjects. This work is promoted by outside grants, or by funds specially available to each College, or by research scholarships, particularly at Dunedin and Auckland.

National Research Scholarships. *See* Appendix XXIII. C.

#### IV. SOUTH AFRICA.

THE RESEARCH GRANT BOARD of the Union of South Africa was instituted in 1918. During the financial year 1925-26 the Board was provided with a sum of £1850 for the work of miscellaneous research. In addition to grants-in-aid for the furtherance of research in connexion with the development of the country, the Board appointed a Committee to make a physical and chemical survey of the coal resources of the Union. A sub-committee has been entrusted with experimental work on the utilization of coal. The following problems are under consideration: (i.) investigation of the coking properties of coal blends from Transvaal and Natal; (ii.) briquetting; and (iii.) production of oil from coal. The Board, at the request of the Carnegie Corporation, is also collaborating with the Dutch Reformed Church in research in connexion with the "Poor White" problem of the Union.

INTELLIGENCE SURVEY. A Committee was appointed by the Board in 1924 to conduct a comprehensive intelligence survey of the Union of South Africa. A system of tests considered suitable to the country has been drawn up and the survey has been in progress for some time with the active co-operation of the Education Department.

VETERINARY RESEARCH INSTITUTE, Onderstepoort, Transvaal, established by Sir Arnold Theiler, K.C.M.G., its first Director, is probably the most important veterinary research station in the Empire. The

Institute has made a special study of certain deficiency diseases in cattle. An anthrax vaccine prepared by the Laboratory has had considerable success. The Institute is also working on the relationship of veldt vegetation to phosphorus deficiency and nutrition of stock.

A LOW TEMPERATURE RESEARCH LABORATORY AND PRE-COOLING STATION, Cape Town, established in 1926 by the Union Department of Agriculture for investigations into the safe transportation of perishable products. The Division of Botany of the Department works in close association with the Low Temperature Research Station at Cambridge, England, under the Dept. of Sci. and Ind. Research. Close touch is maintained with the apple stores at Elgin.

A SILVICULTURE RESEARCH STATION, Deepwells, is maintained by the Union Forest Department for the study of various ecological and biological features of the indigenous forests, the rate of growth of natural regeneration and of plants set out in forests under varying degrees of canopy and kinds of site.

THE EMPIRE COTTON GROWING CORPORATION (*see* Appendix XXIII. B. 3 above) maintains a Research Station for plant breeding and plant physiology at Barberton, Eastern Transvaal. Director—F. R. Parnell, M.A. Camb. The Station is equipped with new laboratories and an experimental farm. There is also a Station for plant breeding at Magut, near Vryheid, Natal.

#### V. TANGANYIKA TERRITORY.

THE EAST AFRICAN AGRICULTURAL RESEARCH STATION at Amani, which was opened in 1926, is a central research station maintained by the Governments of the East African Dependencies and working on fundamental problems connected with East African crops, especially coffee, in co-operation with the local Departments of Agriculture. The staff consists of the Director (Mr. W. Nowell, C.B.E.) and nine scientific officers, as well as subordinate staff. The Station is situated at an altitude of about 5000 feet in the Usambara Hills in the Tanga Province of the Tanganyika Territory, near Muhesa on the Tanga-Moshi railway. In addition to laboratories, experimental plots, etc., there is a large coffee estate attached to the Station.

The Station is primarily devoted to the investigation of problems involving "long-range" and "wide-range" research; it is not a teaching institution, and the admission of unofficial research workers would have to be the subject of special arrangements.

#### VI. INDIA.

THE INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE, 210 Bow Bazaar Street, Calcutta, founded in 1876 by the late Dr. Mahendra Lal Sircar, with the object of providing facilities for scientific research in India, is equipped with a Laboratory built at the expense of the late Maharaja of Vizianagaram, a Library, an Astronomical Observatory,

and a fine Lecture Hall. Considerable improvements in the Laboratory have been made of recent years, and it is now admirably adapted for researches in various branches of Physics, Chemistry, and Mineralogy. The direction of research is in the hands of the Hon. Sec., Sir C. V. Raman, F.R.S., Palit Prof. of Physics, Univ. of Calcutta. The Institute receives a grant of Rs. 20,000 p.a. from the Govt. of India.

The development of industries in India is a Provincial service and Government policy in regard to research work is to a large extent determined provincially.

THE INDIAN INSTITUTE OF SCIENCE, Bangalore, established and originally endowed by Sir Ratan Tata, is concerned with the application of science to industry and agriculture (v. p. 605). Its total income is now approx. Rs. 4.73 lakhs, towards which the Government of India contributes Rs. 1.5 lakhs, the Government of Mysore half a lakh, the Government of Hyderabad 0.1 lakh; the practical side of research work conducted there has been developed in recent years.

There are Government *Research Institutes* at Pusa (Agricultural, dealing with problems of general or all-India importance in the various sections of Botany, Chemistry, Bacteriology, etc.), Dehra Dun (Forestry), and Cawnpore (General Applied Chemistry, Vegetable Oils, Leather, and Tinctorial Chemistry).

The new *Forest Research Institute*, Dehra Dun, the largest in the Empire, if not in the world, was opened last November by the Viceroy. It has been a centre for scientific forest work since 1878. The cost of the 1200 acres surrounding the Institute, the departments for silviculture, forest economy, forest entomology, forest botany and chemistry, and the mills and workshops for sawing, testing, and seasoning timber have cost £850,000. The Institute's method of seasoning Indian walnut for rifle stocks has saved the Government £10,000 p.a., while an epidemic of boring insects which had destroyed  $5\frac{1}{2}$  million trees in the Sal forests has recently been successfully suppressed. Inquiries should be addressed to the President, Forest Research Institute and College, Dehra Dun, U.P., India. A project is in hand for a *Forest Research Institute* in Burma. For further information with regard to Pusa, the Bose Research Institute, the Forest Research Institute, Dehra Dun, the Indian Assn. for the Cultivation of Science, and the Indian Inst. of Science, Bangalore, see *Handbook of Indian Universities*, 1928, published by the Inter-University Board, Cawnpore, India, Appendices I., III.-VI.

An *Imperial Council of Agric. Research* has just been established on the recommendation of the (Linlithgow) Royal Commission on Indian Agric. The *Royal Institute of Science*, Bombay, is designed to conduct undergraduate teaching side by side with post-graduate research in the Departments of Chemistry, Physics, and Biology.

The *Central Cotton Committee's Technological Research Laboratory*, Matunga, Bombay, opened in Dec. 1924, is for research work on cotton problems, testing of cotton yarns, and chemical examination of cotton sent for trial. In addition, the Committee places grants-in-aid at the disposal of Provincial Departs. of Agric. for research work

on cotton, and is contributing to the expenses of the new *Institute of Plant Industries* at Indore, established in 1919 and financed by subscription. The States of Central India made gifts of land and money, and in 1924 the Central Cotton Committee provided buildings, equipment, and a guaranteed annual income. In 1928 the Institute was incorporated. It is making fundamental investigations on cotton, especially in relation to the black soils of the district and the production of improved varieties to meet local conditions. It also trains a certain number of Indian university graduates as cotton specialists. A *Technological Laboratory*, Matunga, Bombay, was opened in 1925 at a total cost of £40,000. Spinning and research laboratories for fibre investigation were provided by the Central Cotton Committee.

At the *Imperial Institute of Veterinary Research*, Muktesar, research activities in cattle diseases have been developed on an unprecedented scale. In addition there is a *Research Tannery* at Calcutta, and an *Imperial Research Laboratory* in Bengal is contemplated.

The *Indian Lac Association for Research* is financed by a cess on the exports of lac, and employs the funds on research connected with the cultivation of lac and the manufacture of shellac. The Research Station is in Ranchi. The *Sir J. C. Bose Research Institute*, Calcutta, founded 1917, is concerned especially with Plant Biology. It receives an annual grant from the Govt. of India of Rs. 103,000. The *Indian Association for the Cultivation of Science*, Calcutta, also receives a grant of Rs. 20,000 p.a. from the Government of India.

*Medical research* is systematically arranged for by the Government of India, either directly or through local Govts., at central or provincial institutions. The chief of these are the *Central Research Institute*, Kasauli, the *School of Tropical Medicine and Hygiene*, Calcutta, the *Haffkine Institute*, Bombay, the *King Institute of Preventive Medicine*, Madras, *King Edward VII. Memorial Pasteur Institute*, Shillong, and the *Pasteur Institutes* at Kasauli, Coonoor, and Rangoon. The *Indian Research Fund Association*, supported by its grants from the Government of India, assists in financing enquiries by all these institutions, and employs not only Indian Medical Service Officers but also workers outside the Services in studying the most urgent tropical disease problems. The objects of the Association are the prosecution and assistance of medical research, the propagation of knowledge and experimental measures generally in connexion with the causation, mode of spread, and prevention of diseases, primarily those of a communicable nature. All proposals for research under the Association are examined by the *Scientific Advisory Board*, which consists of experts chosen from the Research Institutes of the country as well as from the central medical administration. This Committee is thus able, not only to assess the value of proposals, but also to co-ordinate and prevent overlapping, and it is largely on its recommendations that the grants from the Association are made. Apart from grants-in-aid to teachers, bureaux, and publications, it has financed numerous researches, the selected results of which are published quarterly in the *Indian Journal of Medical Research* and its Memoirs.

VII. CEYLON.

RUBBER RESEARCH STATION, Culloden Estate, Neboda, Ceylon. A Rubber Research Scheme is financed by subscriptions from rubber estates and by grants-in-aid from the Rubber Growers' Association and the Government of Ceylon. It employs 4 technical officers, who are responsible for research work into rubber problems and for visits to estates. Research work is undertaken in laboratories which have been erected on Culloden Estate, Neboda, and it is supervised by a Technical Committee consisting of 4 technical officers and certain officers of the Department of Agriculture. The whole Scheme is controlled by an Executive Committee of which the Director of Agriculture is Chairman.

VIII. MALAYA.

THE RUBBER RESEARCH INSTITUTE OF MALAYA was established in 1925 at Kuala Lumpur, Federated Malay States, "for the purpose of research into, and investigation of, all problems and matters relating to rubber and the provision of information relating to the same." The Institute is managed by a Board consisting of the Director of Agriculture, Straits Settlements and Federated Malay States (*ex officio*), six members appointed by Associations of Planters in Malaya, and from three to five members nominated by the High Commissioner for the Malay States. It is financed by means of a fixed cess on rubber produced in, and exported from, Malaya.

The Institute is at present organized, under a Director, in four main Divisions: Botanical, Chemical, Soils, and Pathological. Facilities for the admission of private research workers would have to be the subject of special arrangements with the authorities.

IX. TRINIDAD.

THE EMPIRE COTTON GROWING CORPORATION (*see* Appendix XXIII. B. 3 above) maintains a Research Station, devoted mainly to fundamental problems of plant physiology and genetics, at St. Augustine, Trinidad, in close connexion with the *Imperial College of Tropical Agriculture*, where a great deal of research is going on into various aspects of tropical agriculture.

## XXV

## INTERNATIONAL FEDERATIONS

INTERNATIONAL RESEARCH COUNCIL, Palais des Académies, Brussels. Gen. Secretary—Sir Henry Lyons, F.R.S., Royal Society, Burlington House, London, W.1. This body was constituted in 1920, in pursuance of a resolution adopted in Nov. 1918 at a Conference in Paris at which the principal Allied Academies were represented. Under the auspices of the Council, *International Unions* have been formed for Astronomy, Geodesy and Geophysics, Pure and Applied Chemistry, Mathematics, Physics, Radio-Telegraphy, Biological Sciences, and Geography.

UNION ACADÉMIQUE INTERNATIONALE (for co-operation in the advancement of studies by means of collective researches and publications in the fields of Archæology, History, Philology, and Moral, Political, and Social Science), Palais des Académies, Brussels. The Union was constituted in 1919 on the initiative of the Académie des Inscriptions et Belles-Lettres.

MODERN HUMANITIES RESEARCH ASSOCIATION, founded 1918, for the encouragement of advanced study in Modern Languages and Literatures by co-operation. Has 62 correspondents and about 900 members. Press organ: *Modern Language Review*, quarterly, 7s. Hon. Secy.: Wm. Atkinson, Armstrong College, Newcastle-upon-Tyne. Sub-Secy. for America: Prof. O. Fowles, Washington Square College, 32 Waverley Place, New York City, U.S.A.

INTERNATIONAL INSTITUTE OF INTELLECTUAL CO-OPERATION, 2 rue de Montpensier, Paris. *Director*: M. Julien Luchaire. Since its inauguration in 1926 the Institute has served as the executive organ of the League of Nations International Committee on Intellectual Co-operation.

*Aims.* Promotion of international understanding in relation to exchanges and collaboration in the fields of Science, Letters, Art, and Education; preparation of international agreements for the protection of intellectual workers; spread of the principles of the League of Nations among the younger generation in the schools.

The Institute has endeavoured to assist the international co-ordination of intellectual work: (a) By *Meetings* of the representatives of international students' organizations; of the directors of national university offices; of the representatives of institutions for the scientific study of international relations; of experts on international schools correspondence; of the directors of national libraries in various countries; of experts on the bibliography of the biological, economic, and linguistic sciences; of the representatives of the Spanish, French, and Italian chalcographies; of the experts of the International Museums Office; of experts on questions relating to the educational rôle of

museums; of experts brought together to study the proposal for an agreement between casting workshops and museums; of experts on the question of obstacles impeding the circulation of books. (b) By its participation in the *International Convention*, of which one of the most important results was the recognition of the moral rights of authors (Rome, 1928); and the preliminary draft of a convention on scientific property. (c) By the *Resolutions adopted* by the Assembly of the League of Nations concerning the compilation of world intellectual statistics; the conservation of printed matter and manuscripts; the suppression of customs duties on printed matter addressed to recognized libraries and public institutions. (d) By *Exhibitions* of chalcographic prints at Madrid, Paris, Rome, Geneva, Brussels, London, etc.; of casts at Cologne. (e) By *Publications on*: Holiday Courses in Europe; University Exchanges in Europe; Institutions for the Scientific Study of International Relations; the International Co-ordination of Libraries; the International Protection of Authors' Rights; Scientific Property; Collections of Photographs of Works of Art; French Museums; Notable Books Published in the Different Countries. (f) By *Means of its two Reviews*: "La Co-opération intellectuelle" (yearly subscription: France, 50 Fr. frs.; other countries, 75 Fr. frs.); "Mouseion" (yearly subscription: France, 30 Fr. frs.; other countries, 40 Fr. frs.).

36 countries have appointed National Committees on Intellectual Co-operation to serve as correspondents with the International Committee on Intellectual Co-operation and the International Institute.

The CONFÉDÉRATION INTERNATIONALE DES ÉTUDIANTS was formed at Strasbourg in 1919 by official representatives of the National Unions of Students of Belgium, Czecho-Slovakia, France, Luxembourg, Poland, Roumania, and Spain, and unofficial representatives of students of 10 other countries which had, at that time, no national unions. The Second Congress took place at Warsaw in Sept. 1924. Since then 3 Congresses have been held—at Rome in 1927, Paris, 1928, Budapest, 1929. The next will be held at Brussels in Aug. 1930. Membership has grown considerably, and the C.I.E. now includes the Nat. Unions of 29 countries. It includes also 8 free members, 1 associate member, and 1 collaborating member—Germany. The number of students represented is about one million. The C.I.E. also organized the Internat. Univ. Games at Rome in 1927, at Paris in 1928. It is also collaborating in the building of an Internat. Univ. Sanatorium at Leysin, Switzerland. The confederation aims at promoting friendship between students and student bodies throughout the world and the study of international questions relative to higher education and the conditions of student life. Central Office—22 Place de Brouckère, Brussels. Administrateur—J. Couturier, Avocat. Director of Commissions—I. S. Macadam, N.U.S., 3 Endsleigh Street, London, W.C.1.

The INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN was founded in 1920 "to promote understanding and friendship between the university women of the nations of the world, and thereby to further their interests and develop between their countries sympathy and mutual helpfulness." It has branches in 33 countries. The Federation

assists travelling members by providing introductions, and by the establishment of club-houses in such centres as Paris, London, Berlin, Brussels, Rome, New York, Washington, Philadelphia. It provides travelling fellowships for women graduates (v. Appendix XXIII.), and promotes the exchange of university and secondary school teachers between different countries. The Carnegie Endowment for the Promotion of Peace has granted the Federation \$5000 to be used for travelling expenses. Officers (1929-32): *President*, Prof. Winifred Cullis, Univ. of London; *Vice-Presidents*, Me. N. Schreiber-Favre, Geneva; Mme. Octave Monod, Paris; Prof. J. Westerdyk, Univ. of Utrecht; *Treasurer*, Dean Bernice Brown, Radcliffe Coll., Cambridge, Mass.; *Secretary*, Miss Theodora Bosanquet, Crosby Hall, Cheyne Walk, London, S.W.3. International Conferences are held triennially. At the last Conference held in August 1929 there was an interesting discussion on "The Value of Research." The Conference also decided to assist the translation of scientific works and to use the linguistic and technical knowledge of its members for this purpose. The next Conference will be held in 1932. *Crosby Hall* was opened by the British Federation of Univ. Women as a London residence for women graduates of all countries, at Easter 1927. The residence is intended primarily for graduate students carrying on research or other advanced work in London. Application for accommodation should be made to the Warden, Crosby Hall, London, S.W.3.

**INTERNATIONAL STUDENT SERVICE.** The International Student Service is an organization which has been established to promote student self-help and a closer co-operation between students and workers, and to serve students of different countries without discrimination of race, religion, or colour. I.S.S. has established an Institute for Student Self-Help and Co-operative Organization in Dresden (2 Kaitzerstrasse, Dresden, A. 24). Publications: *Vox Studentium* (quarterly), *Annual Reports*, *Conference Reports*, *Occasional Papers*. International Headquarters: 13 rue Calvin, Geneva, Switzerland.

**THE WORLD'S STUDENT CHRISTIAN FEDERATION** is a federation of the national Student Christian Movements of over forty countries, which has a membership of some 300,000. Publications: *The Student World* (quarterly), a *Directory and Exchange List*, and a *List of Foyers and Student Hostels* (annual). Offices: 13 Rue Calvin, Geneva, Switzerland.

**THE STUDENT CHRISTIAN MOVEMENT** of Great Britain and Ireland is the British Branch of the Federation. Publications: *The Student Movement* (monthly during term). Offices: Annandale, North End Road, Golders Green, London, N.W.11.

**INTER-UNIVERSITY JEWISH FEDERATION** of Gt. Britain and Ireland (federating all Jewish Univ. Societies in the U.K. and Ireland). Hon. Sec., A. I. Shapiro, M.A., 88 Princess Road, Edgbaston, Birmingham.

**THE UNIVERSITIES LIBRARY FOR CENTRAL EUROPE** was established towards the end of 1920 in order to co-ordinate and consolidate the work of securing (by gifts, exchange, and purchase) British books,

journals, etc., for students, teachers, and libraries in the Universities of Central Europe. In conjunction with the League of Nations it has undertaken to accept literature from other countries for distribution anywhere in the United Kingdom, and, similarly, to distribute all over Central Europe books and periodicals received from Universities and learned societies in Great Britain. In 1926 it added to its other functions that of a clearing-house for reception and distribution of scientific books and periodicals from and between individuals and institutions in Great Britain and Ireland. Hon. Sec.—C. Fuller, B.A., Assistant Librarian, London School of Economics.

## XXVI

## UNIVERSITIES OF THE UNITED STATES OF AMERICA

In the 975 Universities, Colleges, and Professional Schools which submitted returns for 1925-26 to the United States Bureau of Education, there were enrolled in that year 822,895 students, of whom rather more than one-third were women. Of these institutions 154 were under public and 821 under private control; 156 were independent professional schools. Of the total number of students 55,632 were in pre-matriculation departments and 32,500 were in graduate schools. Law students numbered 40,359, medical 19,682, dental 11,777, theological 13,655, pharmacy 10,815, engineering 59,315. For full information about American Universities students in this country are advised to apply to the AMERICAN UNIVERSITY UNION, British Division, 50 Russell Sq.; on the continent of Europe to the Paris office of the Union, 173 Boulevard St. Germain. In Rome there is an AMERICAN ACADEMY at Porta San Pancrazio 29. In Belgium the FONDATION UNIVERSITAIRE, which administers numerous scholarships tenable in American institutions of higher learning, has its office at 74 rue de Namur, Bruxelles. In Prague there is an AMERICAN INSTITUTE. In America reference may be made to the AMERICAN COUNCIL ON EDUCATION, 26 Jackson Place, Washington; or to the INSTITUTE OF INTERNATIONAL EDUCATION, 2 West 45th St., New York. This Institute published, in 1927, a *Guide-book for Foreign Students in the U.S.A.* The BUREAU OF EDUCATION of the United States Department of the Interior published in 1921 a Bulletin (No. 39 of 1920) on "Facilities for Foreign Students in American Colleges and Universities." This is obtainable from the Government Printing Office, Washington, D.C., at 15 cents a copy. A recent Australian view of American Univ. life and organization is given in *The American University* by E. R. Holme of the Univ. of Sydney (Angus and Robertson, Ltd., Sydney, 1920, 7s. 6d.). A description of American Univs. from the point of view of a French scientist is given in *Universities and Scientific Life in the U.S.A.*, by Prof. M. Caullery (Oxford Univ. Press, 1922, 10s. 6d.).

INTERNATIONAL HOUSE, Riverside Drive, New York, opened Sept. 1924, is a residential club for over 500 foreign and American students. The requisite funds were provided by J. D. Rockefeller, junior, who also founded the "International Education Board" (chartered Jan. 16, 1923). This Board has established the INTERNATIONAL INSTITUTE OF TEACHERS COLLEGE (v. *infra*, Columbia Univ.).

The BRITISH INFORMATION LIBRARY, 44 Whitehall Street, New York, established Dec. 1919, for the convenience of Americans desiring information on British current affairs, is a branch of the News Department of the Foreign Office, from which it is well supplied with official documents and other publications. It has become the recognized centre for information on British Empire affairs. It is in close touch with the Dominion Trade Commissioners in New York, and can give information on Dominion affairs. Wherever possible, official documents are lent, on request, to American libraries under the usual inter-library loan conditions. Early copies of documents dealing with matters of general interest, such as foreign affairs, finance, education, social welfare, industrial relations, mineral and oil resources, etc., are received regularly direct from London. The Library also has an important file of documents on Indian affairs, and some of the leading Indian newspapers. It is entirely free to the public, and information is gladly given to all enquirers. The Library is the official agent in U.S.A. for publications of H.M. Stationery Office.

For information as to American University and College Scholarships for British students see Appendix XXIII.

A BRITISH-AMERICAN ASSOCIATION OF PHI BETA KAPPA (founded 1776—a society of American University scholars of distinction) was formed in England in 1924 under the presidency of Lord Balfour. Address, American University Union, 50 Russell Sq., London, W.C.1.

EXPENSES. Annual tuition fees range from a maximum of about £60 in the large Eastern universities to a minimum of about £15 in the State universities and small colleges of the Middle West. Living costs vary according to the size of the college or university, and the size of the town in which it is located. In general, living expenses in the South are a little less than in the Middle West, and in the Middle West a little less than in the West and East. The cost of an academic year of nine months may be reckoned at about £300 in the most expensive places, and £130 in the least expensive. Transportation costs about 2d. a mile.

AMERICAN DEGREES (non-professional). The following notes are based on a Report presented by a Committee of the American Council on Education to the French Ministry of Public Instruction: The American Colleges, both those which are independent institutions and the colleges of liberal arts within Universities, award the A.B. (or B.S.) degree to students who complete a 4 years' course. Ordinarily the student at the time of admission to the college is about 18 years of age and has completed a 4 years' course in a secondary school. A considerable portion of his work at college belongs, however, to what in European countries is called secondary education. A peculiarity of the American system of grading, both in secondary and in higher

institutions, is the weight attached to the length of time spent under instruction, a degree being attainable by gradual accumulation of a specified number of "credits" (certificates of definite periods of time spent successfully under instruction), which thus largely replace the examinations used in other countries for testing the student's capacity at various intervals. The college graduate who aspires to the degree of M.A. (or M.S.) proceeds to the Graduate School of a University (the professional schools of law, medicine, etc., with few exceptions, admit undergraduates), and there pursues his studies, either general or, if aiming at a subsequent doctorate, specialized, for one year. The Ph.D. requirements are ordinarily "3 years of resident study, beyond the baccalaureate, the presentation of a thesis embodying the results of original research, and the passing of a comprehensive examination testing the candidate's knowledge of his chosen field of learning."

The Report points out that higher education in the U.S.A. is largely autonomous, there being no control by the Federal Government and little control by the political authorities of any State. Such standardization as has been effected has come through the voluntary efforts of groups of institutions having similar ideals and purposes. Conspicuous among these is the Association of American Universities. The Scottish Universities Entrance Board exempts from the preliminary examination of the Scottish universities holders of certificates which admit to a regular course of study leading to a degree in Arts, Pure Science, or Medicine in any of the universities or colleges in the United States of America included in the accepted list of colleges and universities approved by the Association of American Universities.

The University of Cambridge grants exemption from the whole of the Previous examination to a student who has qualified for admission to one of the universities or colleges of the United States of America which has been approved by the Senate for the purposes of affiliation, and also to students who have passed the examinations of the American College Entrance Examination Board, provided examinations passed cover English, 3 units or an equivalent standard; Latin or Greek, 4 units or an equivalent standard; a third language, 3 units or an equivalent standard; and Mathematics, 3 units or an equivalent standard.

The University of Oxford grants senior standing to American students who hold the Bachelor of Arts degree from certain approved American universities, and junior standing to students who have pursued a course of study at such universities extending over two years, provided that the course has included the study of two languages other than English, Latin or Greek being one of these languages.

Below is given a list of 178 institutions approved by the Association of American Univs. This list has been adopted by most of the Univs. of the U.K. for the purpose of admission of graduates with a view to qualifying for the Ph.D. degree (v. p. 18). They may be classified as:

I. 36 Univs. of complex organization, usually with *graduate schools* and certain professional and technological schools. These are the 28 members of the Assocn. (including McGill and Toronto), and Boston,

New York, and Western Reserve and the Univs. of Cincinnati, Colorado, Pittsburgh, Texas, and Washington.

II. 21 *Technological Institutions*: Agric. Coll. of Utah, Logan, Utah; California Inst. of Tech. (M), Pasadena, Cal.; Carnegie Inst. of Tech., Pittsburgh, Pa.; Case School of Applied Science (M), Cleveland, Ohio; Clarkson Coll. of Tech. (M), Potsdam, N.Y.; Iowa State Coll., Ames, Iowa; Lehigh Univ. (M), South Bethlehem, Pa.; Massachusetts Agric. Coll., Amherst, Mass.; Massachusetts Inst. of Tech., Cambridge, Mass.; Oregon Agric. Coll., Corvallis, Ore.; Pennsylvania State Coll., State College, Pa.; Polytechnic Inst. of Brooklyn (M), Brooklyn, N.Y.; Purdue Univ., Lafayette, Ind.; Rensselaer Polytechnic Inst. (M), Troy, N.Y.; Rose Polytechnic Inst., Terre Haute, Ind.; Simmons Coll. (W), Boston, Mass.; State Coll. of Washington, Pullman, Wash.; Stevens Inst. of Tech. (M), Hoboken, N.J.; United States Military Academy, Westpoint, N.Y.; Univ. of Maryland, College Park, Md.; Worcester Polytechnic Inst. (M), Worcester, Mass.

III. The remaining 121 *Colleges*: primarily organized with undergraduate curricula leading to the A.B. or B.S., in some cases with strong technological divisions, and occasionally a strong professional school.

Agnes Scott Coll. (W), Decatur, Ga.; Albion Coll., Albion, Mich.; Alfred Univ., Alfred, N.Y.; Allegheny Coll., Meadville, Pa.; Amherst Coll. (M), Amherst, Mass.; Baker Univ., Baldwin City, Kan.; Barnard Coll. (W), New York; Bates Coll., Lewiston, Me.; Beloit Coll., Beloit, Wis.; Birmingham Southern Coll., Birmingham, Ala.; Boston Coll. (M), Chestnut Hill, Mass.; Bowdoin Coll. (M), Brunswick, Me.; Brown Univ., Providence, R.I.; Bryn Mawr Coll. (W), Bryn Mawr, Pa.; Carleton Coll., Northfield, Minn.; Carthage Coll., Carthage, Ill.; Centre Coll. (M), Danville, Ky.; Coe Coll., Cedar Rapids, Iowa; Colby Coll., Waterville, Me.; Colgate Univ. (M), Hamilton, N.Y.; Coll. of the City of New York (M), New York, N.Y.; Coll. of St. Catherine (W), St. Paul, Minn.; Coll. of St. Elizabeth (W), Convent Station, N.J.; Coll. of St. Teresa (W), Winona, Minn.; Coll. of William and Mary, Williamsburg, Va.; Coll. of Wooster, Wooster, Ohio; Colorado Coll., Colorado Springs, Col.; Connecticut Coll. for Women (W), New London, Conn.; Converse Coll. (W), Spartanburg, S.C.; Cornell Coll., Mount Vernon, Iowa; Dartmouth Coll. (M), Hanover, N.H.; Davidson Coll. (M), Davidson, N.C.; Denison Univ., Granville, Ohio; De Pauw Univ., Greencastle, Ind.; Dickinson Coll., Carlisle, Pa.; Doane Coll., Crete, Neb.; Dominican Coll. (W), San Rafael, Cal.; Drake Univ., Des Moines, Iowa; Drury Coll., Springfield, Mo.; Earlham Coll., Richmond, Ind.; Elmira Coll. (W), Elmira, N.Y.; Emory Univ. (M), Atlanta, Ga.; Eureka Coll., Eureka, Ill.; Florida State Coll. for Women (W), Tallahassee, Fla.; Fordham Univ. (M), Fordham, N.Y.; Franklin Coll., Franklin, Ind.; Franklin and Marshall Coll. (M), Lancaster, Pa.; Georgetown Univ. (M), Washington, D.C.; Gettysburg Coll., Gettysburg, Pa.; Goucher Coll. (W), Baltimore, Md.; Grinnell Coll., Grinnell, Iowa; Hamilton Coll. (M), Clinton, N.Y.; Hamline Univ., St. Paul, Minn.; Haverford

(M) For men only.

(W) For women only.

(C) Others co-educational.

Coll. (M), Haverford, Pa.; Heidelberg Univ., Tiffin, Ohio; Hobart Coll., Geneva, N.Y.; Howard Coll., Birmingham, Ala.; Hunter Coll. of the City of New York, New York; Illinois Coll., Jacksonville, Ill.; Illinois Wesleyan Univ., Bloomington, Ill.; Illinois Woman's Coll. (W), Jacksonville, Ill.; Kenyon Coll. (M), Gambier, Ohio; Knox Coll., Galesburg, Ill.; Lafayette Coll. (M), Easton, Pa.; Lake Erie Coll. (W), Painesville, Ohio; Lake Forest Coll., Lake Forest, Ill.; Lawrence Coll., Appleton, Wis.; Macalester Coll., St. Paul, Minn.; Marietta Coll., Marietta, Ohio; Miami Univ., Oxford, Ohio; Middlebury Coll., Middlebury, Vt.; Mills Coll. (W), Oakland, Cal.; Milwaukee-Downer Coll. (W), Milwaukee, Wis.; Monmouth Coll., Monmouth, Ill.; Morningside Coll., Sioux City, Iowa; Mount Holyoke Coll. (W), South Hadley, Mass.; Muhlenberg Coll., Allentown, Pa.; Municipal Univ. of Akron, Akron, Ohio; New Rochelle Coll. (W), New Rochelle, N.Y.; New York State Coll. for Teachers, Albany, N.Y.; North-Western Coll., Naperville, Ill.; Oberlin Coll., Oberlin, Ohio; Occidental Coll., Los Angeles, Cal.; Ohio Univ., Athens, Ohio; Ohio Wesleyan Univ., Delaware, Ohio; Otterbein Coll., Westerville, Ohio; Park Coll., Parkville, Miss.; Pomona Coll., Claremont, Cal.; Radcliffe Coll. (W), Cambridge, Mass.; Randolph-Macon Coll. (M), Ashland, Va.; Randolph-Macon Woman's Coll. (W), Lynchburg, Va.; Reed Coll., Portland, Ore.; Rice Inst., Houston, Texas; Ripon Coll., Ripon, Wis.; Rockford Coll. (W), Rockford, Ill.; Rosary Coll. (W), River Forest, Ill.; Rutgers Coll. (M), New Brunswick, N.J.; St. Lawrence Univ., Canton, N.Y.; Simpson Coll., Indianola, Iowa; Smith Coll. (W), Northampton, Mass.; Swarthmore Coll., Swarthmore, Pa.; Sweet Briar Coll. (W), Sweet Briar, Va.; Syracuse Univ., Syracuse, N.Y.; Trinity Coll., Durham, N.C.; Trinity Coll. (M), Hartford, Conn.; Trinity Coll. (W), Washington, D.C.; Tufts Coll., Medford, Mass.; Tulane Univ. (M), New Orleans, La.; Union Univ. (M), Schenectady, N.Y.; Univ. of Alabama, University, Ala.; Univ. of Arizona, Tucson, Ariz.; Univ. of Arkansas, Fayetteville, Ark.; Univ. of Buffalo, Buffalo, N.Y.; Univ. of Chattanooga, Chattanooga, Tenn.; Univ. of Delaware, Newark, Del.; Univ. of Florida (M), Gainesville, Fl.; Univ. of Georgia (M), Athens, Ga.; Univ. of Idaho, Moscow, Ida.; Univ. of Kentucky, Lexington, Ky.; Univ. of Maine, Orono, Me.; Univ. of Mississippi, University, Miss.; Univ. of Montana, Missoula, Mont.; Univ. of Nevada, Reno, Nev.; Univ. of New Hampshire, Durham, N.H.; Univ. of North Dakota, University, N.D.; Univ. of Notre Dame (M), Notre Dame, Ind.; Univ. of Oklahoma, Norman, Okla.; Univ. of Oregon, Eugene, Ore.; Univ. of Redlands, Redlands, Cal.; Univ. of Richmond, Richmond, Va.; Univ. of Rochester, Rochester, N.Y.; Univ. of South Dakota, Vermillion, S.D.; Univ. of South Carolina, Columbia, S.C.; Univ. of Southern California, Los Angeles, Cal.; Univ. of the South (M), Sewanee, Tenn.; Univ. of Tennessee, Knoxville, Tenn.; Univ. of Utah, Salt Lake City, Utah; Univ. of Vermont, Burlington, Vt.; Univ. of West Virginia, Morgantown, W.Va.; Univ. of Wyoming, Laramie, Wyo.; Vanderbilt Univ., Nashville, Tenn.; Vassar Coll. (W), Pough-

(M) For men only.

(W) For women only.

All others co-educational.

keepsie, N.Y.; Wabash Coll. (M), Crawfordsville, Ind.; Washburn Coll., Topeka, Kan.; Washington and Jefferson Coll. (M), Washington, Pa.; Washington and Lee Univ. (M), Lexington, Va.; Wellesley Coll. (W), Wellesley, Mass.; Wells Coll. (W), Aurora, N.Y.; Wesleyan Univ. (M), Middletown, Conn.; Western Coll. for Women (W), Oxford, Ohio; Westminster Coll., New Wilmington, Pa.; Wheaton Coll. (W), Norton, Mass.; Whitman Coll., Walla Walla, Wash.; William Jewell Coll. (M), Liberty, Mo.; Williams Coll. (M), Williamstown, Mass.; Wilson Coll. (W), Chambersburg, Pa.; Winthrop Coll. (W), Rock Hill, S.C.; Wittenberg Coll., Springfield, Ohio.

The following particulars of the 26 institutions in the United States belonging to the Asscn. of American Univs. have been kindly supplied by the American University Union, British Division. All are co-educational, except C.U.A., Clark, Harvard, Princeton, Virginia, and Yale, and even these, except C.U.A. and Princeton, admit women for graduate work. Fuller information, including particulars of equipment and research funds, library facilities, and facilities for publication of research results, is given in *Opportunities for Study at American Graduate Schools*, Bulletin, 1921, No. 6, of the United States Bureau of Education. The American Council on Education issued in 1928 *American Universities and Colleges*, ed. David Allan Robertson: Charles Scribner's Sons, N.Y.

CALIFORNIA, UNIVERSITY OF (founded 1868), Berkeley, Cal. (State Univ.). *President*: W. W. Campbell, Sc.D., LL.D. *Faculties*: Arts, Science, Agric., Mechanics, Mining, Civil Engineering, Chemistry, Commerce, Education, Jurisprudence, Medicine, Dentistry, Vocational Education, Fine Arts, Law, Pharmacy.

*Library*: 638,933 vols. *Teaching Staff*: 1469. *Students*, excluding Extension Courses, 18,969. *Summer Session* in all departments, 6 weeks, 7386 students.

CATHOLIC UNIVERSITY OF AMERICA (founded 1889), Washington, D.C. *Rector*: Rt. Rev. T. J. Shahan, S.T.D., J.U.L., LL.D. *Faculties*: Arts, Sacred Sciences, Law, Philosophy, Letters, Sciences, Divinity.

*Library*: 268,504 vols. *Teaching Staff*: 115. *Students*: 863. *Summer School* for Catholic women teachers, 6 weeks, 724 students.

CHICAGO, UNIVERSITY OF (1891), Chicago, Ill. *President*: R. M. Hutchins. *Faculties*: Arts and Lit., Science, Divinity, Law, Medicine, Commerce and Admn., Social Service Admn., Home Economics, Educn.

*Libraries*: 1,000,000 vols. *Teaching Staff*: 612. *Students*: 14,472. *Summer quarter* in all departments, 10 weeks.

CLARK (founded 1889), Worcester, Mass. *President*: Wallace W. Atwood.

*Libraries*: 113,000 vols., 500 journals. *Teaching Staff*: 36. *Students*: 376. *Summer School*, chiefly Geography and History, 5 weeks, 142 students.

COLUMBIA (founded 1754), New York City. *President*: Nicholas Murray Butler, Ph.D., LL.D., D.Litt. *Faculties*: Arts, Pol. Sc.,

(M) For men only.

(W) For women only.

All others co-educational.

Philos., Pure Sc., Mines, Engineering, Chemistry, Law, Medicine, Pharmacy, Architecture, Journalism, Business.

*Libraries*: 1,025,000 vols. *Teaching Staff*: 1934. *Students*, including Extension Dept. but excluding Summer Session and Home Study Courses, 25,359. *Summer Session* in all depts., 5 weeks, 12,720 students.

The INTERNATIONAL INSTITUTE, established in 1923 with the aid of an annual contribution of \$100,000 for ten years from the International Education Board (founded by John D. Rockefeller, 1923), is an integral part of Teachers' College which had in that year some 250 foreign students and over 100 Americans who held posts as teachers in other countries. The Institute's work comprises: (a) Presentation of general view of American educational system and its adaptation to foreign situations and problems; (b) visitation of American Schools for study of conditions and procedure; (c) investigation of educational conditions in foreign countries; (d) instruction in American ideals and institutions as a basis for understanding American education; (e) publication of *International Education Year-Book* dealing with progress of educn. in various countries each year and completing once in 5 years an account of every country in the world.

CORNELL (founded 1868), Ithaca, N.Y. *President*: Livingston Farrand, M.D., LL.D. *Faculties*: Arts and Science, Medicine, Agric., Archt., Engin., Law, Veterinary.

*Libraries*: 750,000 vols. and pamphlets. Over 2000 current periodicals received. *Teaching Staff*: 918. *Students*: 5818. *Summer Session* in all depts., 6 weeks, 2023 students.

HARVARD (founded 1638), Cambridge, Mass. *President*: Abbott Lawrence Lowell, LL.D. *Faculties*: Arts and Science, Engineering, Archt., Business Admn., Theology, Law, Educn., Medicine, Dentistry.

*Libraries*: 2,497,200 vols. *Teaching Staff*: 770. *Students*: 7721. *Summer Session* in all depts., 6 weeks, 2452 students.

ILLINOIS, UNIVERSITY OF (founded 1868), Urbana, Ill. (State Univ.). *President*: David Kinley, Ph.D., LL.D. *Faculties*: Liberal Arts and Sc., Commerce and Business Admn., Engineering, Agric., Law, Education, Medicine, Dentistry, Pharmacy, Music, Library Science, Railway Engin. and Admn.

*Library*: 707,717 vols. *Teaching Staff*: 1005. *Students*: 12,073. *Summer Session* in all depts., 8 weeks, 2412 students.

INDIANA (founded 1820), Bloomington, Ind. (State Univ.). *President*: Wm. Lowe Bryan, Ph.D., LL.D. *Faculties*: Arts, Medicine, Education, Law, Commerce and Finance, Music, Science, Dentistry.

*Library*: 176,000 vols. *Teaching Staff*: 270. *Students*: 4503. *Summer Session* in all depts., 9 weeks.

IOWA, STATE UNIV. OF (founded 1855), Iowa City. *President*: W. A. Jessup, Ph.D. *Faculties*: Liberal Arts, Law, Medicine, Dentistry, Pharmacy, Applied Sc., Education, Commerce, Nursing, Journalism, Music.

*Library*: 315,500 vols. *Teaching Staff*: 533. *Students*: 5833. *Summer Session* in all depts., 11 weeks, 3640 students.

JOHNS HOPKINS (founded 1876), Baltimore, Maryland. *President*: Frank Johnson Goodnow, LL.D. *Faculties*: Arts, Medicine, Engin., Hygiene and Pub. Health.

*Libraries*: 283,242 vols. *Teaching Staff*: 487. *Students*: 4329. *Summer Session* in all depts., 5 weeks, 918 students.

KANSAS, UNIV. OF (1866), Lawrence, Kansas (State Univ.). *Chancellor*: E. H. Lindley, Ph.D. *Faculties*: Arts, Engineering, Law, Fine Arts, Pharmacy, Medicine, Education, Liberal Arts and Sc., Business.

*Library*: 185,000 vols., 1500 periodicals. *Teaching Staff*: 326. *Students*: 4613. *Summer Session* in all depts., 10 weeks, 1607 students.

MICHIGAN, UNIV. OF (1837), Ann Arbor, Mich. (State Univ.). *President*: Alexander Grant Ruthven, Ph.D. *Faculties*: Lit., Sc. and Arts, Engin. and Archit., Medicine, Law, Pharmacy, Dental Surgery, Educn., Bus. Admn.

*Libraries*: 615,000 vols., 3618 periodicals. *Teaching Staff*: 659. *Students*: 10,134. *Summer Session* in all depts., 8 weeks, 3322 students.

MINNESOTA, UNIV. OF (1868), Minneapolis, Minn. (State Univ.). *President*: L. D. Coffman, Ph.D. *Faculties*: Sc., Lit., and Arts, Engin., Archit., Chem., Agric., Forestry, Home Econ., Law, Medicine, Dentistry, Mining, Pharmacy, Educn., Business Administration.

*Library*: 475,000 vols. *Teaching Staff*: 679. *Students*: 13,025. *Summer Session* in all depts., 11 weeks, 6566 students.

MISSOURI, UNIV. OF (1839), Columbia, Mo. (State Univ.). *President*: S. D. Brooks, LL.D. *Faculties*: Arts and Science, Educn., Business and Public Admn., Law, Engineering, Agric., Medicine, Journalism, Mines and Metallurgy, Fine Arts.

*Library*: 231,366 vols., 25,000 pamphlets, 2942 periodicals. *Teaching Staff*: 339. *Students*: 4618. *Summer Session* in all depts., 8 weeks, 1643 students.

NEBRASKA, UNIV. OF (1869), Lincoln, Neb. (State Univ.). *Chancellor*: Edgar A. Burnett, D.Sc. *Faculties*: Agric., Medicine, Pharmacy, Engin., Arts and Sc., Business Admn., Dentistry, Law, Fine Arts, Nursing, Journalism, Agric.

*Library*: 204,673 vols. *Teaching Staff*: 434. *Students*: 8039. *Summer Session* in all depts., 12 weeks.

NORTH CAROLINA, UNIV. OF (founded in 1789), Chapel Hill, N.C. *President*: H. W. Chase, Ph.D., LL.D. *Faculties*: Liberal Arts, Applied Science, Education, Commerce, Law, Med., Pharmacy, Engineering.

*Libraries*: 160,000 vols., 1700 current periodicals. *Teaching Staff*: 175. *Students*: 2510. *Summer School* in all depts., 12 weeks, 1236 students.

NORTHWESTERN (founded 1855), Evanston, Ill. *President*: Walter Dill Scott, Ph.D., LL.D. *Faculties*: Medicine, Law, Dentistry, Music, Commerce, Speech, Liberal Arts, Engineering, Journalism.

*Library*: 166,094 vols. *Teaching Staff*: 563. *Students*: 8710. *Summer Session* in all depts., 8 weeks, 1823 students.

OHIO STATE UNIV. (founded 1870), Columbus, Ohio. *President*: G. W. Rightmire. *Faculties*: Agriculture, Liberal Arts, Commerce, Education, Engineering, Dentistry, Law, Med., Pharm., Vet. Med., Social Administration, Journalism.

*Library*: 300,000 vols. *Teaching Staff*: 783. *Students*: 9963. *Summer Quarter* in all depts., 10 weeks, 2550 students.

PENNSYLVANIA, UNIVERSITY OF (founded 1740), Philadelphia, Pa. *Provost*: J. H. Penniman, Ph.D., LL.D. *Faculties*: Arts, Science, Educn., Fine Arts, Medicine, Law, Dentistry, Vet. Med., Elec. Engin.

*Libraries*: 615,325 vols., 2547 periodicals. *Teachers*: 1281. *Students*: 10,923. *Summer School* in nearly all depts., 6 weeks, 2510 students.

PRINCETON (founded in 1747), Princeton, N.J. *President*: J. G. Hibben, Ph.D., LL.D., Litt.D. *Faculties*: Arts, Science, Engin.

*Libraries*: 600,000 vols., 116,000 periodicals and pamphlets. *Teachers*: 290. *Students*: 2466.

STANFORD (founded 1891), California. *President*: Ray Lyman Wilbur. *Faculties*: Arts, Educn., Law, Medicine, Business, Engineering.

*Libraries*: 410,000 vols. *Teaching Staff*: 368. *Students*: 4201. *Summer Quarter* in all depts., 10 weeks, 1150 students.

UNIVERSITY OF VIRGINIA (founded in 1819), Charlottesville, Va. (State Univ.). *President*: E. A. Alderman, D.C.L., LL.D. *Faculties*: Arts, Law, Med., Engin., Educn.

*Libraries*: 151,333 vols. *Teaching Staff*: 139. *Students*: 1991. *Summer Quarter* in all depts., 10 weeks, 2170 students.

WASHINGTON UNIVERSITY (founded in 1853), St. Louis, Missouri. *Chancellor*: George Reeves Throop, Ph.D. *Faculties*: Liberal Arts, Engin. and Archit., Business and Public Administration, Botany, Law, Med., Dent., Fine Arts.

*Library*: 261,301 vols., 99,468 pamphlets. *Teaching Staff*: 400. *Students*: 3352. No *Summer School*.

WISCONSIN, UNIV. OF (1849), Madison, Wis. (State Univ.). *President*: Glenn Frank, Litt.D. *Faculties*: Letters and Sc., Engineering, Agric., Law, Medicine. The Madison Forest Products Laboratory is situated here.

*Library*: 735,000 vols., 376,000 pamphlets. *Teaching Staff*: 854. *Students*: 8703. *Summer Session* in all depts., 6 weeks, 5015 students.

YALE (founded 1701), New Haven, Conn. *President*: J. R. Angell, Litt.D., LL.D. *Faculties*: Arts, Science, Med., Divinity, Law, Fine Arts, Music, Forestry.

*Libraries*: 1,700,000 vols., 11,556 periodicals. *Teaching Staff*: 539. *Students*: 4866. *Summer Session* in Law, Forestry, and Engin. Field-work, 10 weeks.

## XXVII

## ANGLO-AMERICAN RELATIONS

## PROFESSORSHIPS

GEORGE WATSON PROFESSORSHIP. Founded by Sir W. G. Watson, Bt., who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour. Each year's course will usually comprise about 6 lectures by an eminent authority, American or British. The courses will be given in the various British Univs. in rotation. A general Inaugural Lecture was given in London by the late Viscount Bryce, O.M., in July 1921. This has been published in England by the Cambridge Univ. Press, together with the lectures of 1922 by Dr. A. T. Hadley (ex-President of Yale); 1923, by Dr. Nicholas Murray Butler (President of Columbia Univ.); 1924, by Prof. A. F. Pollard (University College, London); 1925, by Sir Robert Falconer (President of Toronto Univ.); 1926, by Dr. Robert McElroy (Harold Vyvyan Harmsworth Professor of American History at Oxford Univ.); 1927, by Dr. Claude H. Van Tyne (Prof. of History, Michigan); 1928, Dr. R. C. Coupland (Beit Prof. of Colonial Hist., Oxford Univ.). The Lecturer for 1929 was Dr. John H. Finley (Assoc. Editor, *New York Times*). The Foundation is administered by the Sulgrave Manor Board, 1 Central Buildings, Westminster, London, S.W.1.

GEORGE EASTMAN VISITING PROFESSORSHIP, tenable at Oxford Univ. The holder shall be, at the time of his election, a citizen of the U.S.A., eminent in teaching or research, and he shall give instruction in the subject of study in respect of which he is appointed. Appointment—not less than 1, nor more than 5 yrs., but re-eligible.

HAROLD VYVYAN HARMSWORTH PROFESSORSHIP OF AMERICAN HISTORY, tenable at Oxford Univ. The Prof. shall be, at the time of his election, a citizen of the U.S.A. Appointment—5 yrs. from date of election, but re-eligible. Salary, £1200 p.a.

COMMONWEALTH FUND PROFESSORSHIP OF AMERICAN HISTORY, tenable at the Univ. of London, University College. The Commonwealth Fund of New York has appropriated a sum of \$214,500 to endow a Department of American History at University College, London, including a professorship and assistants. A sum of £4866, raised in London and New York, will be available for a library of American History at the College, and a library on the same subject at the Institute of Historical Research, Malet Street, London, W.C.1.

The American Universities are constantly inviting distinguished British scholars to lecture on British History and institutions, so that the need for the establishment of special foundations for the purpose has not been felt in the United States.

## XXVIII

## BUREAUX OF INFORMATION AND DIRECTORIES

Among foreign organizations useful to British students the following may be mentioned :

Austria—(1) Kursorganisation der Wiener medizinischen Fakultät, Vienna ix. 1, Porzellang. 22, from which programmes of medical courses for foreigners and others can be obtained ; (2) Minerva Buro, Vienna viii., Schloßelgasse 22 (information about board and lodging) ; (3) Wiener Internat. Hochschul Kurse, Vienna ix., Boltzmanngasse 16.

Denmark—Anglo-Danish Students' Bureau, 50 Russell Sq., London, W.C.1.

Egypt—Educational Mission in England, 39 Victoria St., Westminster, London, S.W.1.

France—Office National des Universités et Écoles Françaises, London Branch, 1-7 Cromwell Gardens, London, S.W.7. The Office published in 1925 a comprehensive Handbook giving information about the French universities and the entire system of organisation of education in France. Price 5s. The French Ministry of Public Instruction announced on Sept. 17, 1926, the admission to equivalence with the "baccalauréat de l'enseignement secondaire français" of every certificate of matriculation issued by one of the Universities of the United Kingdom and every diploma accompanied by an attestation of the Universities Bureau of the British Empire certifying that the diploma entitles its holder to admission as a regular student to degree courses in one of those universities.

Germany—Deutsches Institut für Ausländer, Universität Berlin, C 2 Universitätsgebäude. Publishes, monthly, *Mitteilungen*.

London Branch—Anglo-German Academic Bureau, 58 Gordon Square, London, W.C.1.

Holland—Netherlands Committee for international academic relations, 33 Wasstraat, Leyden.

Italy—Istituto Interuniversitario Italiano, R. Palazzo Venezia, N. 118, Roma. [There is a *British Institute* at Florence, Palazzo Antinori, Piazza Antinori 3, comprising a School in English for Italians, with 3 years' (elementary), 2 years' (higher), and 2 years' (finishing) courses, a reading-room and library, and the organizing of lectures, concerts, etc. Its Higher Diploma is of the standard of the Doctorate of an Italian Univ. Director—Dr. H. Goad.]

Norway—Studie-Oplysningskontoret, Universitet, Oslo.

Spain—Centro de Estudios Historicos, Almagro 26, Madrid.

Switzerland—Office Central Universitaire Suisse, rue de l'Hôpital 30, Berne.

U.S.A.—American University Union, 50 Russell Square, London,

W.C.1 (London branch of the Institute of International Education, New York).

DIRECTORIES OF THE UNIVERSITIES and other learned institutions of the world: *Minerva* (Walter de Gruyter & Co., Leipzig) and *Index Generalis* (by Prof. R. de Montessus de Ballore; four editions, French, English, American, Spanish, annually; London Agents, Dent & Sons, Ltd., 10 Bedford St., W.C.2).

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